Conference Floor Map

10  Sponsor Booth
11  Poster Sessions
  Daily Coffee
  Breaks / Breakfasts

Cohiba
6  Registration Area
5  4
3  1-2

Montecristo
4  3
2  1

Partagas
3  2  1

Pavilion
Dinner
Reception

Stairs & Escalator
to Pavilion

1-2

Elevators to
Club Tower

Business
Office

Las Vegas, Nevada, USA  July 22-25
<table>
<thead>
<tr>
<th></th>
<th>Monday, July 22</th>
<th>Tuesday, July 23</th>
<th>Wednesday, July 24</th>
<th>Thursday, July 25</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOCOMP</strong></td>
<td>Montecristo 3</td>
<td>Montecristo 3</td>
<td>Montecristo 3</td>
<td>Montecristo 3</td>
</tr>
<tr>
<td><strong>CDES</strong></td>
<td>Cohiba 4</td>
<td>Partagas 3</td>
<td>Partagas 3</td>
<td>-</td>
</tr>
<tr>
<td><strong>CGVR</strong></td>
<td>-</td>
<td>Montecristo 4</td>
<td>Montecristo 4</td>
<td>-</td>
</tr>
<tr>
<td><strong>CSC</strong></td>
<td>Montecristo 4</td>
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<td><strong>DMIN</strong></td>
<td>Cohiba 3</td>
<td>Cohiba 3</td>
<td>Cohiba 3</td>
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<tr>
<td><strong>EEE</strong></td>
<td>Montecristo 2</td>
<td>Montecristo 2</td>
<td>Montecristo 2</td>
<td>Montecristo 2</td>
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<td><strong>ERSA</strong></td>
<td>Partagas 1</td>
<td>Partagas 1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>ESA</strong></td>
<td>Partagas 3</td>
<td>Partagas 3</td>
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</tr>
<tr>
<td><strong>FCS</strong></td>
<td>Montecristo 1</td>
<td>Montecristo 1</td>
<td>Montecristo 1</td>
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<tr>
<td><strong>FECS</strong></td>
<td>Cohiba 4</td>
<td>Cohiba 4</td>
<td>Cohiba 4</td>
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</tr>
<tr>
<td><strong>GCA</strong></td>
<td>-</td>
<td>Partagas 2</td>
<td>Partagas 2</td>
<td>-</td>
</tr>
<tr>
<td><strong>GEM</strong></td>
<td>Cohiba 7</td>
<td>-</td>
<td>Cohiba 7</td>
<td>-</td>
</tr>
<tr>
<td><strong>ICAI</strong></td>
<td>Cohiba 7</td>
<td>* Montecristo 2 &amp; Cohiba 7</td>
<td>* Montecristo 2 &amp; Cohiba 7</td>
<td>* Montecristo 2 &amp; Cohiba 7</td>
</tr>
<tr>
<td><strong>ICOMP</strong></td>
<td>Partagas 2</td>
<td>Partagas 2</td>
<td>-</td>
<td>Partagas 2</td>
</tr>
<tr>
<td><strong>ICWN</strong></td>
<td>Partagas 3</td>
<td>Partagas 3</td>
<td>Partagas 3</td>
<td>Partagas 3</td>
</tr>
<tr>
<td><strong>IKER</strong></td>
<td>Montecristo 3</td>
<td>Montecristo 3</td>
<td>Montecristo 2</td>
<td>Cohiba 3</td>
</tr>
<tr>
<td><strong>IPCV</strong></td>
<td>Cohiba 6</td>
<td>Cohiba 6</td>
<td>* Cohiba 6 &amp; Partagas 1</td>
<td>* Cohiba 6 &amp; Partagas 1</td>
</tr>
<tr>
<td><strong>MSV</strong></td>
<td>Montecristo 4</td>
<td>Montecristo 4</td>
<td>Montecristo 4</td>
<td>Montecristo 4</td>
</tr>
<tr>
<td><strong>PDPTA</strong></td>
<td>Cohiba 10</td>
<td>* Partagas 1 &amp; Cohiba 10</td>
<td>Cohiba 10</td>
<td>* Cohiba 10 &amp; Cohiba 11</td>
</tr>
<tr>
<td><strong>SAM</strong></td>
<td>Cohiba 11</td>
<td>Cohiba 11</td>
<td>Cohiba 11</td>
<td>Cohiba 11</td>
</tr>
<tr>
<td><strong>SERP</strong></td>
<td>Montecristo 1</td>
<td>Montecristo 1</td>
<td>Montecristo 1</td>
<td>Montecristo 1</td>
</tr>
<tr>
<td><strong>SWWS</strong></td>
<td>-</td>
<td>Partagas 2</td>
<td>Partagas 2</td>
<td>-</td>
</tr>
</tbody>
</table>

* Concurrent Sessions
# TABLE OF CONTENTS

Registration Dates and Times + Dinner ................................................................. 1  
Conferences Acronyms and Their Full Titles ......................................................... 2  
Partial List of Additional Keynotes and Invited Talks ....................................... 3  
Planned Tutorials ................................................................................................. 4  
General Session for All Conferences ................................................................. 6  

**Conference Programs and Schedules for July 22, 2013:**
- BIOCOMP ........................................................................................................ 7  
- CSC, MSV, and CGVR. .................................................................................... 9  
- DMIN .............................................................................................................. 12  
- EEE and IKE ................................................................................................ 14  
- ERSA ............................................................................................................. 17  
- FECS ............................................................................................................. 19  
- ICAI and GEM ............................................................................................. 21  
- ICOMP, GCA, and SWWS ......................................................................... 23  
- ICWN, ESA, and CDES .............................................................................. 26  
- IPCV ............................................................................................................. 29  
- PDPTA .......................................................................................................... 31  
- SAM ............................................................................................................. 33  
- SERP and FCS .............................................................................................. 35  

**Conference Programs and Schedules for July 23, 2013:**
- BIOCOMP ........................................................................................................ 38  
- CSC, MSV, and CGVR. .................................................................................... 41  
- DMIN .............................................................................................................. 45  
- EEE and IKE ................................................................................................ 48  
- ERSA ............................................................................................................. 51  
- FECS ............................................................................................................. 53  
- ICAI and GEM ............................................................................................. 56  
- ICOMP, GCA, and SWWS ......................................................................... 61  
- ICWN, ESA, and CDES .............................................................................. 64  
- IPCV ............................................................................................................. 67  
- PDPTA .......................................................................................................... 70  
- SAM ............................................................................................................. 75  
- SERP and FCS .............................................................................................. 78
Conference Programs and Schedules for July 24, 2013:
BIOCOMP........................................................................................................81
CSC, MSV, and CGVR......................................................................................84
DMIN..............................................................................................................87
EEE and IKE.....................................................................................................89
ERSA..............................................................................................................93
FECS..............................................................................................................94
ICAI and GEM...............................................................................................97
ICOMP, GCA, and SWWS..............................................................................102
ICWN, ESA, and CDES..................................................................................105
IPCV..............................................................................................................109
PDPTA...........................................................................................................115
SAM..............................................................................................................118
SERP and FCS...............................................................................................121

Conference Programs and Schedules for July 25, 2013:
BIOCOMP........................................................................................................124
CSC, MSV, and CGVR......................................................................................127
DMIN..............................................................................................................129
EEE and IKE.....................................................................................................130
ERSA..............................................................................................................134
FECS..............................................................................................................135
ICAI and GEM...............................................................................................137
ICOMP, GCA, and SWWS..............................................................................141
ICWN, ESA, and CDES..................................................................................143
IPCV..............................................................................................................146
PDPTA...........................................................................................................151
SAM..............................................................................................................155
SERP and FCS...............................................................................................157
REGISTRATION DATES AND TIMES & CONFERENCE PACKAGE PICKUP

July 21, 2013 (Sunday):
03:00pm - 09:00pm
(LOCATION: Cohiba 5)

July 22, 2013 (Monday):
06:30am - 05:00pm
(LOCATION: Cohiba 5)

July 23, 2013 (Tuesday):
06:45am - 05:00pm
(LOCATION: Cohiba 5)

July 24, 2013 (Wednesday):
06:45am - 05:00pm
(LOCATION: Cohiba 5)

July 25, 2013 (Thursday):
06:45am - 05:00pm
(LOCATION: Cohiba 5)

CONFERENCE RECEPTION DINNER / SOCIAL

July 22, 2013 (Monday):
09:00pm - 11:45pm
(LOCATION: Pavilion)
CONFERENCES ACRONYMS AND THEIR FULL TITLES

BIOCOMP'13: The 14th International Conference on Bioinformatics & Computational Biology
CDES'13: The 13th International Conference on Computer Design
CSC'13: The 10th International Conference on Scientific Computing
EEE'13: The 12th International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government
ERSA'13: The 13th International Conference on Engineering of Reconfigurable Systems and Algorithms
ESA'13: The 11th International Conference on Embedded Systems and Applications
FCS'13: The 9th International Conference on Foundations of Computer Science
FECS'13: The 9th International Conference on Frontiers in Education: Computer Science and Computer Engineering
GCA'13: The 9th International Conference on Grid & Cloud Computing and Applications
GEM'13: The 10th International Conference on Genetic & Evolutionary Methods
ICAI'13: The 15th International Conference on Artificial Intelligence
ICOMP'13: The International Conference on Internet Computing and Big Data
ICWN'13: The 12th International Conference on Wireless Networks
IKE'13: The 12th International Conference on Information & Knowledge Engineering
IPCV'13: The 17th International Conference on Image Processing, Computer Vision, & Pattern Recognition
MSV'13: The 10th International Conference on Modeling, Simulation and Visualization Methods
PDPTA'13: The 19th International Conference on Parallel and Distributed Processing Techniques and Applications
SAM'13: The 12th International Conference on Security and Management
SERP'13: The 11th International Conference on Software Engineering Research and Practice
SWWS'13: The 12th International Conference on Semantic Web and Web Services
These talks are in addition to the focused keynotes/invited talks that appear in the individual conference schedules. The talks are open to all attendees and are scheduled in a way that various targeted attendees can attend/participate in them. This is only a partial list.

0. KEYNOTE LECTURE:
Accessing and Computing Meaning
Professor Victor Raskin
Distinguished Professor of English and Linguistics and Professor of Computer Science (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA
Date and Time: July 22, 2013 (Monday); 08:50 - 09:45am
(LOCATION: Tropicana Theater)

0. KEYNOTE LECTURE:
Visualization and Data Mining for High Dimensional Datasets
Professor Alfred Inselberg
Professor, School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook “Parallel Coordinates: VISUAL Multidimensional Geometry”, (praised by Stephen Hawking among others.)
Date and Time: July 22, 2013 (Monday); 09:55 - 10:50am
(LOCATION: Tropicana Theater)

0. KEYNOTE LECTURE:
How Intellectual Property is Changing the Global Economic Landscape, and What Universities and Companies Must Do to Prepare
Dr. Sandeep Chatterjee
Chief Executive Officer (CEO), Shuv Gray LLC, USA; Named "Young Global Leader" for 2011 by the World Economic Forum for his "professional accomplishments, commitment to society and potential to contribute to shaping the future of the world."
Date and Time: July 22, 2013 (Monday); 11:00 - 11:40am
(LOCATION: Tropicana Theater)

0. ERSA'13 - INVITED TALK/LECTURE:
Addressing the Challenges of Hardware Assurance in Reconfigurable Systems
Professor William H. Robinson
Security and Fault Tolerance (SAF-T) Research Group, Department of EEC, Vanderbilt University, Nashville, TN, USA
Date and Time: July 22, 2013 (Monday); 01:20 - 02:20pm
(LOCATION: Partagas 1)

0. DMIN'13 - INVITED TALK/LECTURE:
The Problem of Induction: When Karl Popper Meets Big Data
Professor Vladimir Cherkassky
Fellow of IEEE; Professor, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, USA; Former Director of NATO Advanced Study Institute (ASI) From Statistics to Neural Networks: Theory and Pattern Recognition Applications, in France (1993); Recipient of The A. Richard Newton Breakthrough Research Award from Microsoft Research for development and application of new learning methodologies.
Date and Time: July 22, 2013 (Monday); 03:20pm - 04:40pm
(LOCATION: Cohiba 3)

0. WEDUCA: Web Enhanced Design of University Curricula
Elisabeth Bacon, George Hagel, Michael Charmine, Richard Foggie, Brian Kirk, Igor Schagaev*, and George Kravtsov
Greenwich University, UK; Kempten University, Germany; Inst. of Informatics, Russian Academy of Sciences, Russia; ESP Central Ltd, UK; Robinsons Associates, UK; Thunder Arts Ltd, UK; London Metropolitan University, UK
Date and Time: July 23, 2013 (Tuesday); 08:00am - 08:40am
(LOCATION: Cohiba 4)
0. Emerging and Innovative Techniques and Methodology in Software Engineering and Applications for Systems Maintenance and Development
Dr. Maureen Raley
Date and Time: July 23 (Tuesday), 2013; 03:20pm - 04:00pm
(LOCATION: Montecristo 1)

0. DMIN’13 - INVITED TALK/LECTURE:
Big Data = Big Challenges?
Dr. Peter Geczy
National Institute of Advanced Industrial Science and Technology (AIST), Japan
Date and Time: July 24, 2013 (Wednesday); 11:00am - 12:20pm
(LOCATION: Cohiba 3)

PLANNED TUTORIALS

0. Accessing Comprehensive Meaning in Information and Language Processing
Professor Julia M. Taylor* and Professor Victor Raskin**
*Assistant Professor, Computer & Information Technology; Fellow, CERIAS; Purdue University, USA;
**Distinguished Professor, English & Linguistics Professor; Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA
Date and Time: July 22 (Monday), 2013; 06:00pm - ...
(LOCATION: Montecristo 1)

0. Robust Resource Management for Parallel and Distributed Computing Systems
Professor H. J. Siegel
Abell Endowed Chair; Distinguished Professor of Electrical and Computer Engineering and Professor of Computer Science; Director, CSU Information Science and Technology Center (ISTeC); Colorado State University, Fort Collins, Colorado, USA
Date and Time: July 22 (Monday), 2013; 06:00pm - ...
(LOCATION: Montecristo 2)

0. Management, Security and Sustainability for Cloud Computing
Professor Carlos Becker Westphall
Professor of Department of Informatics and Statistics; Leader, Networks and Management Laboratory; Fellow, IARIA; Federal University of Santa Catarina, Brazil
Date and Time: July 22 (Monday), 2013; 06:00pm - ...
(LOCATION: Montecristo 3)

0. Introduction to Cryptography and Network Security
Dr. Asoke Nath* and Ms. Joyshree Nath**
*Department of Computer Science, St. Xavier's College (Autonomous), West Bengal, India;
**Jogesh Chandra Chaudhuri College, Kolkata, India
Date and Time: July 22 (Monday), 2013; 06:00pm - ...
(LOCATION: Montecristo 4)

0. Developing Enterprise Web Services and Mobile/Wireless Systems
Dr. Sandeep Chatterjee
Chief Executive Officer (CEO), Shuv Gray LLC, USA; Named "Young Global Leader" for 2011 by the World Economic Forum for his "professional accomplishments, commitment to society and potential to contribute to shaping the future of the world".
Date and Time: July 22 (Monday), 2013; 06:00pm - ...
(LOCATION: Cohiba 11)
O. Visualization & Data Mining for High Dimensional Datasets
Prof. Alfred Inselberg
School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry", (praised by Stephen Hawking among others.)
Date and Time: July 23 (Tuesday), 2013; 05:00pm - 07:00pm
(LOCATION: Cohiba 3)

O. Beautiful Mind (The Human Brain)
Dr. Akash Kumar Singh
IBM, Advisory IT Architect, California, USA; Member of AAAI, AAAS, AACR, Sen. IEEE
Date and Time: July 23 (Tuesday), 2013; 06:00pm - ...
(LOCATION: Montecristo 1)

O. Roll Your Own Cybersecurity Tools with Python
Professor George Markowsky
Professor of Computer Science and Associate Director of the School of Computing and Information Science, University of Maine, Orono, Maine, USA
Date and Time: July 23 (Tuesday), 2013; 06:00pm - ...
(LOCATION: Montecristo 2)

O. Introduction to Cloud Computing Software Architecture, and an Innovation in Cloud
Mehdi Bahrami
Senior Software Analyst and Software Manager, Lian Processor Co.; University of California, Merced, California, USA
Date and Time: July 23 (Tuesday), 2013; 06:00pm - ...
(LOCATION: Montecristo 3)

O. Data Center Networks
Dr. Samee U. Khan* and Mr. Kashif Bilal
North Dakota State University, USA; Fellow, British Computer Society.
Date and Time: July 23 (Tuesday), 2013; 06:00pm - ...
(LOCATION: Montecristo 4)

O. How to Use Android Tablet to Create Content, Publish, and Share
Pratap Chillakanti
Founder and CEO, Lensoo Inc., San Jose, California, USA
Date and Time: July 23 (Tuesday), 2013; 06:00pm - ...
(LOCATION: Cohiba 11)

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O. Extensions And Applications of Universum Learning
Professor Vladimir Cherkassky
Fellow of IEEE, Professor, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, USA; Former Director of NATO Advanced Study Institute (ASI) From Statistics to Neural Networks: Theory and Pattern Recognition Applications, in France (1993); Recipient of The A. Richard Newton Breakthrough Research Award from Microsoft Research for development and application of new learning methodologies.
Date and Time: July 24 (Wednesday), 2013; 03:20pm - 05:20pm
(LOCATION: Cohiba 3)

O. Creating Bioinformatic Workflows within the BioExtract Server Leveraging iPlant Resources
Drs. Carol Lushbough* and Rion Dooley**
*Department of Computer Science, University of South Dakota, USA; PI, National Science Foundation, Integrating the BioExtract Server with the iPlant Collaborative;
**Texas Advanced Computing Center, University of Texas at Austin, USA
Date and Time: July 24 (Wednesday), 2013; 05:40pm - ...
(LOCATION: Montecristo 4)
GENERAL SESSION FOR ALL CONFERENCES

08:30 - 08:45am: Congress Opening Remarks - July 22, Monday:
Professor Hamid R. Arabnia (Chair, Steering Committee & Coordinator)
University of Georgia, Georgia, USA
,LOCATION: Tropicana Theater

08:50 - 09:45am: Keynote Lecture 1 - July 22, Monday:
Accessing and Computing Meaning
Professor Victor Raskin
Distinguished Professor of English and Linguistics and Professor of
Computer Science (courtesy), Purdue University, Indiana, USA
,LOCATION: Tropicana Theater

09:55 - 10:50am: Keynote Lecture 2 - July 22, Monday:
Visualization and Data Mining for High Dimensional Datasets
Professor Alfred Inselberg
Professor, School of Mathematical Sciences, Tel Aviv University,
Israel; Senior Fellow, San Diego Supercomputing Center; Inventor
of the multidimensional system of Parallel Coordinates and author
of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",
(praised by Stephen Hawking among others.)
,LOCATION: Tropicana Theater

11:00 - 11:40am: Keynote Lecture 3 - July 22, Monday:
How Intellectual Property is Changing the Global Economic Landscape,
and What Universities and Companies Must Do to Prepare
Dr. Sandeep Chatterjee
Chief Executive Officer (CEO), Shuv Gray LLC, USA;
Named Young Global Leader for 2011 by the World Economic Forum for
his "professional accomplishments, commitment to society and potential
to contribute to shaping the future of the world."
,LOCATION: Tropicana Theater

11:45 - 11:55am: Announcement; Information talk - July 22, Monday:
Directory of Published Papers - a database
Laurance Baschkin
InterDok Media Services, USA
,LOCATION: Tropicana Theater

12:00 - 01:00pm: LUNCH (On Your Own)
BIOCOMP'13 CONFERENCE SCHEDULE

The 2013 International Conference on Bioinformatics & Computational Biology

There are a number of other sessions (not listed as part of BIOCOMP'13 in this schedule) that are of potential interest to BIOCOMP'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in ESA'13, GEM'13, ICAI'13, ICOMP'13, IKE'13, PDPTA'13, and SWWS'13 conferences discuss topics that are within the scope of BIOCOMP'13; these have been scheduled so that selected BIOCOMP'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-BIOCOMP: COMPUTATIONAL BIOLOGY & MEDICAL APPLICATIONS, TOOLS & SYSTEMS + HEALTH INFORMATICS AND RELATED ISSUES
Co-Chairs: Dr. Kuo-Chung Chu, National Taipei University of Nursing & Health Sciences, Taiwan, ROC; Prof. Quoc-Nam Tran, Professor and CS Chair, The University of Texas at Tyler, Texas, USA; Prof. Hyo Jong Lee, Chonbuk National University, South Korea
July 22, 2013 (Monday); 01:00pm - 03:00pm
(LOCATION: Montecristo 3)

01:00 - 01:20pm: Distributed Medical Images in Health Care Systems
Behrooz Seyed-Abbassi and Jesse Collins
University of North Florida, Jacksonville, Florida, USA

01:20 - 01:40pm: Constructing a Cloud-based ADHD Screening System: a Perspective of Norm Development
Kuo-Chung Chu, Lun-Ping Hung, Chien-Fu Tseng
National Taipei University of Nursing & Health Sciences, Taiwan, ROC

01:40 - 02:00pm: Emulation on Motion Tracking of Endoscopic Capsule Inside Small Intestine
Guanqun Bao, Liang Mi, Kaveh Pahlavan
Worcester Polytechnic Institute, Worcester, MA, USA

02:00 - 02:20pm: The Role of ICT and Mobile Health to Improve Clinical Process Management; An Overview on the Therapy Management Process and a Real Case
Paolo Locatelli, Vittorio Montefusco, Elena Sini, Nicola Restifo, Roberta Facchini, and Michele Torresani
Fondazione Politecnico di Milano, Milan, Italy; Fondazione IRCCS Istituto Nazionale dei Tumori di Milano, Italy; IRCCS Istituto Clinico Humanitas, Italy

02:20 - 02:40pm: A Novel Method For Finding Ovarian Cancer Diagnosis Biomarkers
Quoc-Nam Tran
Lamar University, Texas, USA
02:40 - 03:00pm: Variable Color Environment System using Heart Rate Variability
Naoko Kanda, Daiki Sakuma, Masato Yoshimi, Tsutomu Yoshinaga, and Hidetugu Irie
The University of Electro-Communications, Japan

03:00 - 03:20pm: BREAK

SESSION 2-BIOCOMP: PROTEIN CLASSIFICATION & STRUCTURE PREDICTION, FOLDING, & COMPUTATIONAL STRUCTURAL BIOLOGY
Co-Chairs: Prof. Quoc-Nam Tran, Professor and CS Chair,
The University of Texas at Tyler, Texas, USA
July 22, 2013 (Monday); 03:20pm - 04:20pm
(LOCATION: Montecristo 3)

03:20 - 03:40pm: Effect of Chloride Ions on GAPDH Conformation
Olga V. Gorshkalova and Norbert W. Seidler
Kansas City University of Medicine and Biosciences, Kansas City, MO, USA

03:40 - 04:00pm: Prediction Of Sec-Dependent Secreted Proteins Based On mRNA Structure Of Signal Peptides
Hanan Samander, Kalpdrum Passi, Mazen Saleh
Laurentian University, Sudbury, Ontario, Canada

04:00 - 04:20pm: PFC: An Efficient Approach for Protein-Protein Interaction Network Analysis
Ying Liu
College of Professional Studies, St. John's University, Queens, New York, USA

04:20 - 06:00pm: During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ESA'13, GEM'13, ICAI'13, ICOMP'13, IKE'13, PDPTA'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of BIOCOMP'13.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
CSC'13 + MSV'13 + CGVR'13 CONFERENCE SCHEDULES


Because of topical overlap between CSC'13, MSV'13, and CGVR'13 tracks, the schedules of these conferences have been merged into one comprehensive schedule. It is hoped that this would encourage the participants of the three conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these three tracks) that are of potential interest to CSC'13, MSV'13, and CGVR'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in FCS'13, FECS'13, ICOMP'13, IPCV'13, and PDPTA'13 conferences discuss topics that are within the scope of CSC'13, MSV'13, and CGVR'13; these have been scheduled so that selected CSC'13, MSV'13, and CGVR'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-CSC: NOVEL SCIENTIFIC & ENGINEERING ALGORITHMS & APPLICATIONS + COMPLEX SYSTEMS + MEDICAL SCIENCE
Co-Chairs: Dr. Chenn Qian Zhou, Purdue University Calumet, USA
July 22, 2013 (Monday); 01:00pm - 03:00pm
(LOCATION: Montecristo 4)

01:00 - 01:20pm: A Combined Algorithm for Analyzing Structural Controllability and Observability of Complex Networks
Luis Ubeda, Carlos Herrera, Iker Barrias, Pedro J. Zufiria, and Mariluz Congosto
ETSI Telecomunicacion, Universidad Politecnica de Madrid, Spain; Massachusetts Institute of Technology, USA; Universidad de Madrid, Spain

01:20 - 01:40pm: Block Length Optimization in Data Deduplication Technique
Matrazali Noorafiza, Itaru Koike, Hiroto Yamasaki, Abdulhashim Rizalhasrin, and Toshiyuki Kinoshita
Graduate School of Computer Science, Tokyo University of Technology, Japan
01:40 - 02:00pm: Design of an Efficient Object-Oriented Software for an FPGA-based Scan Probe Microscope Controller
Adam Kollin, Steffen Porthun, Darrin Hanna, Charles Otlowski, Aarin Covyeau, Michael Lohrer, Katherine LaBelle, Jason Gorski
RHK Technology, Inc., Troy, Michigan, USA; Schaefer Technologie GmbH, Langen, Germany; Oakland University, Rochester, Michigan, USA

02:00 - 02:20pm: The Development and Validation of the Creep Damage Constitutive Equations for P91 Alloy
Xin Yang, Qiang Xu, Zhongyu Lu
Teesside University, Middlesbrough, UK; University of Huddersfield, Huddersfield, UK

02:20 - 02:40pm: Neural Network Binary Multiplier
Han Huang, Fangyue Chen, Luxia Xu
Hangzhou Dianzi University, Hangzhou, Zhejiang, P. R. China

02:40 - 03:00pm: The Development of Finite Element Analysis Software for Creep Damage Analysis
Dezheng Liu, Qiang Xu, Zhongyu Lu, Donglai Xu, Feng Tan
Teesside University, Middlesbrough, UK; University of Huddersfield, Huddersfield, UK

03:00 - 03:20pm: BREAK

SESSION 2-MSV: SIMULATION AND NUMERICAL METHODS
Co-Chairs: Dr. Chenn Qian Zhou, Purdue University Calumet, USA; Dr. Samuel Ndueso John, Head, Dept. of Electrical & Information Engineering, Covenant University, Nigeria
July 22, 2013 (Monday); 03:20pm - 06:00pm
(LOCATION: Montecristo 4)

03:20 - 03:40pm: Anti-Symmetry and Logic Simulation
Peter M. Maurer
Baylor University, Waco, Texas, USA

03:40 - 04:00pm: Fire and Flame Simulation using Particle Systems and Graphical Processing Units
T. S. Lyes and K. A. Hawick
Massey University, Auckland, New Zealand

04:00 - 04:20pm: Modulo 10M Calculator Increases Simulation Precision
Scott Imhoff, Palak Thakkar, Thomas Wang, Kendy Hall
Raytheon Company, Intelligence and Information Systems, Colorado, USA

04:20 - 04:40pm: Interactive Simulation and Visualisation of Falling Sand Pictures on Tablet Computers
B. Pearce and K. A. Hawick
Massey University, Auckland, New Zealand

04:40 - 05:00pm: Fast Fluid Simulation on Three-Dimensional Parameterized Structured Grids
Vitor Barroso, Waldemar Celes, Marcelo Gattass
Department of Informatics - Tecgraf, PUC-Rio, Brazil

05:00 - 05:20pm: Integration of Numerical Simulation Data with Immersive 3D Visualization
Dong Fu, John (Jack) Moreland, Litao Sheng, Bin Wu, and Chenn Q. Zhou
Center for Innovation through Visualization and Simulation (CIVS), Purdue University Calumet, Hammond, USA
05:20 - 05:40pm: HumMod-Golem Edition: large scale model of integrative physiology for virtual patient simulators
Jiri Kofranek, Marek Matejak, Pavol Privitzer, Martin Tribula, Tomas Kulhanek, Jan Silar, Rudolf Pecinovsky
Charles University in Prague, Lab. of Biocybernetics, Prague, Czech Republic; Creative Connections, Ltd., Czech Republic

05:40 - 06:00pm: Fast Detection and Visualization with Parallel Coordinates of Automated Living Context-Awareness Environments
Pei Ling Lai, Jin Liang Yang, Ching-Pu Chen, Shih Chung Chen, and Alfred Inselberg
Southern Taiwan University of Science and Technology, Taiwan; School of Mathematical Sciences, Tel Aviv University, Israel

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
DMIN'13 CONFERENCE SCHEDULE

The 2013 International Conference on Data Mining

There are a number of other sessions (not listed as part of DMIN'13 in this schedule) that are of potential interest to DMIN'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in IKE'13, BIOCOMP'13, GEM'13, ICAI'13, and SAM'13 conferences discuss topics that are within the scope of DMIN'13; these have been scheduled so that selected DMIN'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

01:00 - 01:20pm: Opening Remarks
Dr. Robert Stahlbock, DMIN 2013 Chair

SESSION 1-DMIN: REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, AND PERSPECTIVES I
Co-Chairs: Dr. Mahmoud Abou-Nasr (Ford Motor Company, USA), Dr. Robert Stahlbock (University of Hamburg, Germany), Dr. Gary M. Weiss (Fordham University, New York, USA)
July 22, 2013 (Monday); 01:20pm - 03:00pm
(LOCATION: Cohiba 3)

01:20 - 01:40pm: Maintenance Knowledge Management with Fusion of CMMS and CM
David Baglee, Sten-Erik Bjorling, Diego Galar, Sarbjeet Singh, and Uday Kumar
University of Sunderland, UK

01:40 - 02:00pm: MineTool-3DM2: An Algorithm for Data Mining of 3D Simulation Data
Tamara Sipes and Homa Karimabadi
University of California San Diego, USA

02:00 - 02:20pm: Using Data Mining to Analyze Donation Data for a Local Food Bank
Steven X Jiang
North Carolina A&T State University, USA

02:20 - 02:40pm: Using Recursive Sorting to Improve Accuracy of Memory-based Collaborative Filtering Recommendations
Sergey Morozov
University of Detroit Mercy, Michigan, USA

02:40 - 03:00pm: Improve the Quality of Product Recommendations Based on Multi-channel CRM for e-Commerce
Chuen-He Liou
Center for General Education, NTUNHS, Taiwan

03:00 - 03:20pm: BREAK
03:20 - 04:40pm: DMIN'13 - INVITED TALK/LECTURE:
The Problem of Induction: When Karl Popper Meets Big Data
Professor Vladimir Cherkassky
Fellow of IEEE; Professor, Department of Electrical and Computer
Engineering, University of Minnesota, Minneapolis, USA; Recipient of
The A. Richard Newton Breakthrough Research Award from Microsoft
Research for development and application of new learning methodologies.
(LOCATION: Cohiba 3)

04:40 - 05:00pm: (Buffer Q&A)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
EEE'13 & IKE'13 CONFERENCE SCHEDULES

The 2013 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'13)
+
The 2013 International Conference on Information & Knowledge Engineering (IKE'13)

Because of topical overlap between EEE'13 and IKE'13 tracks, the schedules of these two conferences have been merged into one comprehensive schedule (which resulted in a number of concurrent sessions.) It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to EEE'13 and IKE'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in BIOCOMP'13, FECS'13, GEM'13, ICAI'13, ICOMP'13, and SWWS'13, discuss topics that are within the scope of EEE'13 and IKE'13; these have been scheduled so that selected EEE'13 and IKE'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-EEE: (CONCURRENT SESSION WITH SESSION 2-IKE)
LEARNING METHODS, E-LEARNING + EDUCATIONAL TOOLS, & RELATED ISSUES
Co-Chairs: Dr. Asoke Nath, St. Xavier's College (Autonomous), India
July 22, 2013 (Monday); 01:00pm - 06:00pm
(LOCATION: Montecristo 2)

01:00 - 01:20pm: Technological Gap: The Education Case Of The State Of Puebla, Mexico
Juan Carlos Botello and Martin Davila
Escuela de Negocios, Universidad Popular Autonoma del Estado de Puebla, Mexico

01:20 - 01:40pm: Molly Open Source Online Lecture System
Ronald P. Vullo, Natallia Ivaniuk, Sean Boyle
Rochester Institute of Technology, Rochester, New York, USA

01:40 - 02:00pm: Effective Implementation Of E-Learning in Initial Learning Program: A Case Study
Soumya Hari
Tata Consultancy Services, Kerala, India

02:00 - 02:20pm: Improving Knowledge Management in E-Learning: A Contingent Framework for Efficient Knowledge Transfer
Anitha Chennamaneni and Jayson G. Brown
Texas A&M University - Central Texas, Texas, USA
02:20 - 02:40pm: Design of Layered Learning Ontologies for Effective Learning in e-Learning
Hyun-Sook Chung and Jung-Min Kim
Chosun University, Gwangju, South Korea; Daejin University, Pocheon, South Korea

02:40 - 03:00pm: An Educational Java Applet for Understanding Principles of Synchronous BCD Counters
Dongsik Kim, Jaeho Cha, Seongyong Lee, Saeron Han, Samjun Seo
Soonchunhyang University, Korea; Anyang University, Korea

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Android Exchange (AEx) - A Virtual Community for Students on eTeams
Ravi Shankar, Fran McAfee, Michael Harris, Ravi Behara, James Fowlkes
Florida Atlantic University, Boca Raton, Florida, USA

03:40 - 04:00pm: Recognizing Classroom Atmosphere with Good Attention to the Ongoing Lecture for Indexing its Archived Video
Koh Kakusho, Yohei Kobayashi, Takeshi Okadome, Masayuki Murakami
Kwansei Gakuin University, Japan; Kyoto University of Foreign Studies, Japan

04:00 - 04:20pm: Teaching Teams and Project Management in a Virtual Environment
Charles V. Balch
Northern Arizona University, Arizona, USA

04:20 - 04:40pm: New Challenges in Teaching e-Forensics Online
Eamon P. Doherty
Cybercrime Training Lab Director, Fairleigh Dickinson University, New Jersey, USA

04:40 - 05:00pm: ByTE - A Flexible Binary Tree Editor
A. Chan
Fayetteville State University, North Carolina, USA

05:00 - 05:20pm: Integration of Massive Open Online Education (MOOC) System with in-Class Room Interaction and Assessment and Accreditation: An extensive report from a pilot study
I. Maria Joseph and Asoke Nath
St. Xavier's College (Autonomous), Kolkata, India

05:20 - 05:40pm: Some Issues and Challenges in E-learning Methodologies and E-assessment System
I. Maria Joseph and Asoke Nath
St. Xavier's College (Autonomous), Kolkata, India

05:40 - 06:00pm: FREE SLOT

SESSION 2-IKE: (CONCURRENT SESSION WITH PART OF SESSION 1-EEE)
DATABASES, INFORMATION RETRIEVAL, SEARCH, AND SHARING
Co-Chairs: Dr. Maureen Raley, Civil Service, USA; Dr. Ying Liu, St. John's University, New York, USA
July 22, 2013 (Monday); 04:20pm - 06:00pm
(LOCATION: Montecristo 3)

04:20 - 04:40pm: A Method for Search Result Accuracy and Indexing Efficiency on Author Name Search
Heejun Han, Heeseok Choi, Jeasoo Kim
NTIS Center, Korea Institute of Science and Technology Information, Korea
04:40 – 05:00pm: A Novel G-tree for Accelerating the Time-consuming Skyline Query
Yi-Chung Chen, Heng-Ching Liao, Chiang Lee
National Cheng Kung University, Taiwan, ROC

05:00 – 05:20pm: Relevance Feedback for Collaborative Retrieval Based on Semantic Annotations
Fatiha Naouar, Lobna Hlaoua, Mohamed Nazih Omri
MARS Unit of Research, University of Monastir, Tunisia

05:20 – 05:40pm: A System for Keyword Search on Probability XML Data
Weidong Yang, Hao Zhu, Zheng Zhang, Huirong Chen, Lei Wang
Fudan University, P. R. China

05:40 – 06:00pm: A Study on Information Connection Model using Rule-based Connection Platform
Heeseok Choi and Jaesoo Kim
NTIS Center, Korea Institute of Science and Technology Information, KISTI, Korea

06:00 – 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 – 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 – Monday; 09:00pm – 11:45pm
(LOCATION: Pavilion)
ERSA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Engineering of Reconfigurable Systems and Algorithms

There are a number of other sessions (not listed as part of ERSA'13 in this schedule) that are of potential interest to ERSA'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in PDPTA'13, ESA'13, CDES'13, ICWN'13, and SAM'13 conferences discuss topics that are within the scope of ERSA'13; these have been scheduled so that selected ERSA'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

01:00 - 01:20pm: OPENING REMARKS
Dr. Toomas P. Plaks, UK; ERSA Chair and
Prof. William H. Robinson, Vanderbilt University, USA
(LOCATION: Partagas 1)

SESSION A: ERSA'13 - INVITED TALK/LECTURE:
01:20 - 02:20pm: Addressing the Challenges of Hardware Assurance in Reconfigurable Systems
William H. Robinson, Trey Reece, Nihaar N. Mahatme
Security and Fault Tolerance (SAF-T) Research Group,
Department of EEC, Vanderbilt University, Nashville, TN, USA
(Moderator: TBA)
(LOCATION: Partagas 1)

SESSION B: ERSA-NVIDIA Awards
NOMINEES PRESENTATIONS
Chair: TBA
July 22, 2013 (Monday); 02:20pm - 04:00pm
(LOCATION: Partagas 1)

02:20 - 03:00pm: "Bastet" Subsurface Detection Air Vehicle
Ahmed Hassan and Mohammed Gouda
Bastet, Egypt; iITC, Sweden

03:00 - 03:20pm: BREAK

03:20 - 04:00pm: A Novel Parallel Computing Approach for Motion Estimation Based on Particle Swarm Optimization
Manal K. Jalloul
American University of Beirut, Beirut, Lebanon
SESSION C: COMMUNICATION TECHNIQUES IN RECONFIGURABLE SYSTEMS
Chair: TBA
July 22, 2013 (Monday); 04:00pm - 04:40pm
(LOCATION: Partagas 1)

04:00 - 04:20pm: Hardware Parallel Decoder of Compressed HTTP Traffic on Service-oriented Router
Daigo Hogawa, Shin-ichi Ishida, Hiroaki Nishi
Department of Science and Technology, Keio University, Japan

04:20 - 04:40pm: Simplifying Microblaze to Hermes NoC Communication Through Generic Wrapper
Andres Benavides, Byron Buitrago, Johnny Aguirre
University of Antioquia, Colombia

SESSION D: DISCUSSION SESSION AND SHORT PAPERS: COMMUNICATION TECHNIQUES IN RECONFIGURABLE SYSTEMS
Chair: TBA
July 22, 2013 (Monday); 04:40pm - 06:00pm
(LOCATION: Partagas 1)

04:40 - 05:00pm: An Area-Efficient Asynchronous FPGA Architecture for Handshake-Component-Based Design
Yoshiya Komatsu, Masanori Hariyama, Michitaka Kameyama
Graduate School of Information Sciences, Tohoku University, Japan

+ Implementing Alamouting 2x1 Transmit Diversity on Software Defined Radios
Anaam Ansari and Robert Morelos Zaragoza
San Jose State University, California, USA

05:00 - 06:00pm: DISCUSSION SESSION

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
FECS'13 CONFERENCE SCHEDULE

The 2013 International Conference on Frontiers in Education: Computer Science and Computer Engineering

There are a number of other sessions (not listed as part of FECS'13 in this schedule) that are of potential interest to FECS'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in CDES'13, EEE'13, FCS'13, ICOMP'13, MSV'13, SAM'13, SERP'13, and SWWS'13 conferences discuss topics that are within the scope of FECS'13; these have been scheduled so that selected FECS'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-FECS: ACCREDITATION + ASSESSMENT STRATEGIES + ACADEMIC REVIEWS + STUDENT RECRUITMENT STRATEGIES + NOVEL TEACHING METHODS
Co-Chairs: Prof. Donald R. Schwartz, Professor & Chair, Department of Computer Science, Millsaps College, Jackson, MS, USA
July 22, 2013 (Monday); 01:00pm - 04:20pm
(LOCATION: Cohiba 4)

01:00 - 01:20pm: Assessing Student Learning in Computer Science - A Case Study
K. B. Lakshmanan, Sandeep R. Mitra, T. M. Rao
The College at Brockport, State University of New York, Brockport, New York, USA

01:20 - 01:40pm: Using a Learning Management System to Facilitate Program Accreditation
Harry N. Keeling
Howard University, Washington, DC, USA

01:40 - 02:00pm: Android Control Application for Nao Humanoid Robot
Rosalyn L. Brown, Heather L. Helton, Allison C. Williams, Michael T. Shrove, Mladen Milosevic, Emil Jovanov, David Coe, and Jeff Kulick
University of Alabama in Huntsville, Huntsville, Alabama

02:00 - 02:20pm: Three First-Time Computer Engineering Program Accreditation Experiences
William A. Stapleton
Texas State University-San Marcos, Texas, USA

02:20 - 02:40pm: Improving Academic Quality in a Computer Science Graduate Program
Meline Kevorkian and Gregory Simco
Nova Southeastern University, Florida, USA

02:40 - 03:00pm: Student Assessment of Student Work
Donald R. Schwartz
Millsaps College, Jackson, MS, USA
03:00 - 03:20pm: Firing Up All Cores While Introducing Parallel and Distributed Concepts
Jie Liu and Feng Liu
Western Oregon University, Monmouth, Oregon, USA;
Beijing Jiaotong University, Beijing, P. R. China

03:20 - 03:40pm: Using a Dashboard as a Visualization Tool for Assessment Data
Courtney Lamar, Velma Latson, Quincy Brown, Lethia Jackson, and Gail Fink
Bowie State University, Maryland, USA

03:40 - 04:00pm: A Heuristic Approach for Student-Outcomes Assessment Using Bloom's Taxonomy
Iraj Danesh
Alabama State University, Alabama, USA

04:00 - 04:20pm: A Bottom-Up Outcome-Based Learning Assessment Process for Accrediting Computing Programs
Haidar M. Harmanani
Lebanese American University, Byblos, Lebanon

04:20 - 06:00pm: During this period, FECS attendees are encouraged to participate in sessions belonging to CDES'13, EEE'13, FCS'13, ICOMP'13, MSV'13, SAM'13, SERP'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of FECS'13.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
ICAI'13 & GEM'13 CONFERENCE SCHEDULES

The 2013 International Conference on Artificial Intelligence (ICAI'13)
+
The 2013 International Conference on Genetic and Evolutionary Methods (GEM'13)

Because of topical overlap between ICAI'13 and GEM'13 tracks, the schedules of these two conferences have been merged into one comprehensive schedule (which resulted in a number of concurrent sessions.) It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to ICAI'13 and GEM'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in BIOCOMP'13, EEE'13, ICOMP'13, IKE'13, IPCV'13, SAM'13, and SWWS'13 conferences discuss topics that are within the scope of ICAI'13 and GEM'13; these have been scheduled so that selected ICAI'13 and GEM'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-ICAI: EVOLUTIONARY SYSTEMS, GENETIC ALGORITHMS, GENETIC PROGRAMMING AND APPLICATIONS
Co-Chairs: Dr. James A. Crowder,
Raytheon Intelligence, Information, and Services, USA
July 22, 2013 (Monday); 01:00pm - 04:00pm
(LOCATION: Cohiba 7)

01:00 - 01:20pm: Artificial Intelligence Approaches to Music Composition
Richard Fox and Adil Khan
Northern Kentucky University, Kentucky, USA

01:20 - 01:40pm: A Parallel Genetic Algorithm to Coevolution of the Strategic Evolutionary Parameters
Eduardo Noronha and Celso G. Camilo-Junior
Federal University of Goias, Brazil

01:40 - 02:00pm: Artificial Creativity and Self-Evolution: Abductive Reasoning in Artificial Life Forms
James A. Crowder and Shelli Friess
Raytheon Intelligence and Information Systems, Aurora, Colorado, USA;
Relevant Counseling, Englewood, Colorado, USA

02:00 - 02:20pm: Genetic Algorithms For Management of Taxi Scheduling
Lucas P. Rosa, Deborah M. Ferreira, Leonardo L. B. V. Cruciol
Li Weigang, and Deng Xi Jun
TransLab, University of Brasilia, Brazil
02:20 – 02:40pm: Reconfiguration of Distribution Systems to Reduce Voltage Sags by Using Genetic Algorithms
Rafael Tapia-Juarez, Elisa Espinosa-Juarez, Mario Graff
Universidad Michoacana de San Nicolas de Hidalgo, Mexico

02:40 – 03:00pm: Air Traffic Flow Reduction Using Genetic Algorithms in Brazilian Airspace
Leonardo L. B. V. Cruciol and Li Weigang
University of Brasilia, Brazil

03:00 – 03:20pm: BREAK

03:20 – 03:40pm: A Solution for Forecasting PET Chips Prices for both Short-Term and Long-Term Price Forecasting, Using Genetic Programming
Mojtaba Sedigh Fazli and Jean Fabrice Lebraty
University of Montesquieu Bordeaux, France; Lyon 3 University, France

03:40 – 04:00pm: Multiple Determination of Chemical Properties Using a Multi-objective Evolutionary Algorithm and Multiple Linear Regression
Anderson da Silva Soares, Telma Woerle de Lima, Daniel Victor Lucena, Gustavo Teodoroto Laureano, and Clarimar Jose Coelho
Federal University of Goias, Brazil; University of Sao Paulo, Brazil; Pontifical University Catholic of Goias, Brazil

SESSION 2-GEM: DISCRETE, MULTI-OBJECTIVE, AND COMBINATORIAL OPTIMIZATION + AGENT-BASED ALGORITHMS + COMPUTATIONAL BIOLOGY + AI APPLICATIONS
Co-Chairs: Prof. Khaled M. Rasheed, University of Georgia, USA
July 22, 2013 (Monday); 04:00pm - 06:00pm
(LOCATION: Cohiba 7)

04:00 – 04:20pm: Evolutionary Path Algorithm - A Simple and Extensible Metaheuristic
Peter Geiger, W. D. Potter, W. D. Richardson
University of Georgia, Athens, Georgia, USA

04:20 – 04:40pm: Emergent System Effects from Microscopic Evasion Choices in a Predator-Prey Simulation
C. J. Scogings and K. A. Hawick
Massey University, Auckland, New Zealand

04:40 – 05:00pm: Increasing the Density of Multi-Objective Multi-Modal Solutions using Clustering and Pareto Estimation Techniques
Rajesh Kudikala, Ioannis Giagkiozis, Peter J. Fleming
The University of Sheffield, Sheffield, UK

05:00 – 05:20pm: Cancer Genome Assembly and Alignment
Michael Shan-Hui Ho, Kun-Yu Hung, Yu-Shiang Gen, Chao-Chang Chiu, and Tsung-Hua Lu
National Taipei University, Taiwan; Ming Chuan University, Taiwan; Yuan Ze University, Taiwan, ROC

05:20 – 05:40pm: Constructing Wedding Seating Plans: A Tabu Subject
Rhyd Lewis
Cardiff School of Mathematics, Cardiff University, Wales, UK

05:40 – 06:00pm: Associative Classification Mining for Website Phishing Classification
Neda Abdelhamid, Aladdin Ayesh, Fadi Thabtah
E-Business Department, CUD, Dubai, UAE; De Montfort University, Leicester, UK

06:00 – 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 – 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
ICOMP'13 + GCA'13 + SWWS'13 CONFERENCE SCHEDULES


Because of topical overlap between ICOMP'13, GCA'13, and SWWS'13 tracks, the schedules of these conferences have been merged into one comprehensive schedule. It is hoped that this would encourage the participants of the three conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these three tracks) that are of potential interest to ICOMP'13, GCA'13, and SWWS'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in BIOCOMP'13, EEE'13, FECS'13, ICWN'13, IKE'13, PDPTA'13, and SAM'13 conferences discuss topics that are within the scope of ICOMP'13, GCA'13, and SWWS'13 tracks; these have been scheduled so that selected ICOMP'13, GCA'13, and SWWS'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-ICOMP: BIG DATA: WEB MINING + DATA MANAGEMENT & STORAGE + SIMULATION + APPLICATIONS

Co-Chairs: Dr. Ningning Wu, University of Arkansas at Little Rock, USA; Dr. Maureen Raley, Civil Service, USA

July 22, 2013 (Monday); 01:00pm - 03:20pm
(LOCATION: Partagas 2)

01:00 - 01:20pm: A Fuzzy, Incremental, Hierarchical Approach of Clustering Huge Collections of Web Documents
Patrick Hennig, Philipp Berger, Christian Godde, Daniel Hoffmann, and Christoph Meinel
Hasso-Plattner-Institut, University of Potsdam, Germany

01:20 - 01:40pm: Creation of a Habit Model from GPS Data and Algorithms for Providing Awareness Services
Nobuo Matsuo and Kazumasa Takami
Soka University, Japan

01:40 - 02:00pm: The Big Data User-Centric Model
Asta Zelenkauskaite and Bruno Simoes
Drexel University, Philadelphia, Pennsylvania, USA; Fondazione Graphitech, Trento, Trentino, Italy
02:00 - 02:20pm: ACRE: A Method for Supporting Strong Consistency and Adaptivity in Replicated Data Storage
Scott J. Denman and Kyoung-Don Kang
State University of New York at Binghamton, New York, USA

02:20 - 02:40pm: Performance of Mining Medium-to-Large-Scale Scientific Simulation Data
S. G. Morgan and K. A. Hawick
Massey University, Auckland, New Zealand

02:40 - 03:00pm: Mobility Analysis Using MapReduce to Enhance Services Improvement for an University Smart Campus
University of Guadalajara, Mexico; IBM T.J. Watson Research Center, New York, USA

03:00 - 03:20pm: Opportunities and Challenges of Big Data Analytics
Faruk Bagci
Kuwait University, Kuwait City, Kuwait

03:20 - 03:40pm: BREAK

SESSION 2-ICOMP: SECURITY + COMMUNICATION SYSTEMS + RECOMMENDER SYSTEMS + HPC + SOCIAL NETWORKS + BLOGS + MESSAGING SYSTEMS & RELATED ISSUES
Co-Chairs: Prof. Mehrdad S. Sharbaf, Chair IEEE CS
Chapter-Coastal Los Angeles Section,
California State University, Dominguez Hills, USA;
Dr. Anjana Jain, Shri G.S. Institute of Tech. and Sc, India

July 22, 2013 (Monday); 03:40pm - 06:00pm
(LOCATION: Partagas 2)

03:40 - 04:00pm: A Framework For Intrusion Deception On Web Servers
Constantine Katsinis and Brijesh Kumar
Computer and Security Technology, Goodwin College, Drexel University, Philadelphia, PA, USA;
Rapidsoft Systems, Inc., Security Research Group, Princeton, New Jersey, USA

04:00 - 04:20pm: Cross-site Recommendation Application Based on the Viewing Time and Contents of Webpages Captured by a Network Router
Kazuki Masuda, Shin-Ichi Ishida, Hiroaki Nishi
Keio University, Japan

04:20 - 04:40pm: A Best Method to Synthesize Very Large K-th Order Systems without Reachability Analysis
Daniel Yuh Chao
National Chengchi University, Taipei, Taiwan, ROC

04:40 - 05:00pm: Efficient Packet Cache Utilization Of A Network Node For Traffic Reduction
Yuki Otaka and Akiko Narita
Graduate School of Science & Tech., Hirosaki University, Japan

05:00 - 05:20pm: Text Interpretation and Mood: Is Happiness an Indicator?
Laurie J. Patterson
University of North Carolina Wilmington, North Carolina, USA

05:20 - 05:40pm: Design of an Interactive Text Messaging Platform for Problem Alcohol Use Intervention in College Students
Thomas Way, Michael Mason, Eric Benotsch, Hannah Kim, and Daniel Snipes
Villanova University, Villanova, Pennsylvania, USA;
Virginia Commonwealth University, Richmond, Virginia, USA
05:40 - 06:00pm: Reader's Emotion Prediction Based on Partitioned Latent Dirichlet Allocation Model
Ruifeng Xu, Chengtian Zou, Jun Xu
Key Laboratory of Network Oriented Intelligent Computation, Harbin Institute of Technology, P. R. China

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
ICWN'13 + ESA'13 + CDES'13 CONFERENCE SCHEDULES

The 2013 International Conference on Wireless Networks (ICWN'13)
+
The 2013 International Conference on Embedded Systems and Applications (ESA'13)
+
The 2013 International Conference on Computer Design (CDES'13)

Because of topical overlap between ICWN'13, ESA'13, and CDES'13 tracks, the schedules of these conferences have been merged into one comprehensive schedule (which resulted in some concurrent sessions.) It is hoped that this would encourage the participants of the three conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these three tracks) that are of potential interest to ICWN'13, ESA'13, and CDES'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in ERSA'13, ICOMP'13, PDPTA'13, and SAM'13 conferences discuss topics that are within the scope of ICWN'13, ESA'13, and CDES'13; these have been scheduled so that selected ICWN'13, ESA'13, and CDES'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-ESA: MICRO-CONTROLLERS & EMBEDDED SYSTEMS + NETWORK ON CHIP SYSTEMS AND APPLICATIONS
Co-Chairs: Dr. Mehran Asadi, The Lincoln University, PA, USA; Dr. Yong-Kyu Jung, Gannon University, Erie, PA, USA
July 22, 2013 (Monday); 01:00pm - 03:00pm
(LOCATION: Partagas 3)

01:00 - 01:20pm: Unexploded Ordnance Detection with Cooperative Mobile Robots
Brent A. Bell, Andrew L. Suchanek, Dalesha Cartman, James D. Stuckey, Chris Farnell, Brett Sparkman, Guoqing Zhou, Jingxian Wu, and Scott C. Smith
University of Arkansas, Fayetteville, Arkansas, USA; Mississippi Valley State University, Itta Bena, Mississippi, USA; Missouri University of Science & Technology, Rolla, Missouri, USA

01:20 - 01:40pm: Design of Multi-Ring On-Chip Network
Chao-Hao Su, Jen-Yu Wang, Yarsun Hsu
National Tsing Hua University, Taiwan, ROC

01:40 - 02:00pm: Model Based Design Method for Dynamic Configurable Ecosystem of Embedded System
JungEun Cha, YoungJun Jung, Chaedeok Lim
Embedded Software Platform Research Team, Embedded Software Research Dept., Electronics Telecommunication Research Inst. (ETRI), Korea
02:00 - 02:20pm: Lucky Thirteens: A New Breed Of Microprocessor Boards  
William A. Stapleton  
Texas State University-San Marcos, Texas, USA

02:20 - 02:40pm: Wireless Heart Rate and Blood Pressure Monitoring Network  
Hicham H. Hallal, Maya Fakhrriddine, Insaf Kamal, Angham Salem,  
and May Haidar  
Fahad Bin Sultan University, Saudi Arabia;  
San Diego State University, San Diego, California, USA

02:40 - 03:00pm: Roto Disp-Pattern Generation Using Microcontroller-based Hardware  
Jyothi R, V.K. Agrawal, Pradeep A.S.  
CORI Lab, PESIT, India; Keonics Electronic City, Bangalore, India;  
Siemens Information Systems, Ltd.

03:00 - 03:20pm: BREAK

SESSION 2-ICWN: (CONCURRENT SESSION WITH PART OF SESSION 3-CDES)  
COMMUNICATION SYSTEMS + ALGORITHMS + TOOLS + TRANSMISSION SYSTEMS +  
PROTOCOLS AND ROUTING + OFDM
Co-Chairs: Prof. Hemal V. Shah, Ganpat University, India  
July 22, 2013 (Monday); 03:20pm - 06:00pm  
(LOCATION: Partagas 3)

03:20 - 03:40pm: Evaluation of OFDM-OQAM as Spectrum Sensing Technique  
Carlos H. Mendoza C and Natalia Gaviria G.  
University of Antioquia, Medellin, Colombia

03:40 - 04:00pm: Neural Networks for Admission Control in Wireless Mesh Networks  
Juan D. Mendoza  
Universidad de Antioquia, Colombia

04:00 - 04:20pm: Design and Evaluation of Wireless Tele Control System Considering Channel Equalizer  
Faramarz Alsharif, Shiro Tamaki, Tsutomu Nagado,  
Mohammad Reza Alsharif, and Heung Gyoon Ryu  
University of the Ryukyus, Japan;  
Chungbuk National University, Korea

04:20 - 04:40pm: Dynamic Packet Size Adaptation for Efficient Bluetooth Communication  
Daniel Driscall and Kyoung-Don Kang  
State University of New York at Binghamton, New York, USA

04:40 - 05:00pm: Train Safety Improvements Using Microwave Networks  
Pavel Rozsival, Jan Pidanic, Petr Dolezel, Pavel Bezousek  
University of Pardubice, Pardubice, Czech Republic

05:00 - 05:20pm: Parintins Smart Grid Project Backhaul  
Carlos Henrique Rodrigues de Oliveira and Jose Carlos de Medeiros  
Telecommunications Research and Development Center (CPqD), Brazil

05:20 - 05:40pm: A Comparative Analysis of Hands-on Firewall Configuration Exercises for the Undergraduate Classroom  
Evan Damon, Kaleb Ganz, Claire Humbeutel, Miles Crabill, Jens Mache  
Lewis & Clark College, Portland, Oregon, USA
SESSION 3-CDES: (CONCURRENT SESSION WITH SESSION 2-ICWN)
PERFORMANCE ISSUES + HPC & MULTI-PROCESSOR SYSTEMS + FPGA + FILE SERVERS
Co-Chairs: Prof. Eugene John, The University of Texas at San Antonio, Texas, USA
July 22, 2013 (Monday); 04:20pm - 06:00pm
(LOCATION: Cohiba 4)

04:20 - 04:40pm: SDD: Selective De-Duplication with Index by File Size for Primary File Servers
Hitoshi Kamei, Tomonori Esaka, Satoru Kishimoto, Takayuki Fukatani, Takaki Nakamura, and Norihisa Komoda
Hitachi, Ltd., Japan; Tohoku University, Japan; Osaka University, Japan

04:40 - 05:00pm: Performance Measures of an Implementation of a Parallel Compiler
Deepa Komathukattil, Roger Eggen, Sanjay Ahuja, Behrooz Seyed-Abbassi
University of North Florida, Jacksonville, Florida, USA

05:00 - 05:20pm: Performance Tradeoff Spectrum of Integer and Floating Point Applications Kernels on Various GPUs
M. G. B. Johnson, D. P. Playne, K. A. Hawick
Massey University, Auckland, New Zealand

05:20 - 05:40pm: Iterative Synthesis Techniques for Multiple-Valued Logic Functions - A Review and Comparison
Mostafa Abd-El-Barr
Kuwait University, Safat, Kuwait

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
The 2013 International Conference on Image Processing, Computer Vision, & Pattern Recognition

There are a number of other sessions (not listed as part of IPCV'13 in this schedule) that are of potential interest to IPCV'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in CGVR'13, FECS'13, MSV'13, and PDPTA'13 conferences discuss topics that are within the scope of IPCV'13; these have been scheduled so that selected IPCV'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-IPCV: TEXTURE ANALYSIS + 3D AND STEREO IMAGING + SEGMENTATION + PATTERN RECOGNITION + VIDEO PROCESSING & APPLICATIONS

Co-Chairs: Dr. Paolo Zicari, University of Florida, Florida, USA
July 22, 2013 (Monday); 01:00pm - 06:00pm
(LOCATION: Cohiba 6)

01:00 - 01:20pm: Reducing the Complexity of Multi-Dimensional LBP Texture Features Using Genetic Optimisation
Niraj P. Doshi and Gerald Schaefer
Loughborough University, Loughborough, UK

01:20 - 01:40pm: Reconfigurable Computing Architecture for Accurate Disparity Map Calculation in Real-Time Stereo Vision
Paolo Zicari, Herman Lam, Alan George
NSF Center for High-Performance Reconfigurable Computing (CHREC),
University of Florida, Gainesville, Florida, USA

01:40 - 02:00pm: Collision Prediction from Binocular Optical Flows
Fumihiko Mori and Naotoshi Sugano
Tamagawa University, Japan

02:00 - 02:20pm: 3D Active Shape Models Integrating Robust Edge Identification and Statistical Shape Models
Brent C. Munsell, Martin Styner, Heather Hazlett, Song Wang
Claflin University, South Carolina, USA;
University of North Carolina, North Carolina, USA

02:20 - 02:40pm: Enhanced Pre-conditioning Algorithm for the Accurate Alignment of 3D Range Scans
Shane Transue and Min-Hyung Choi
University of Colorado Denver, Denver, Colorado, USA

02:40 - 03:00pm: Voxel-Based Object Representation By Means Of Edging Trees
Luis A. Martinez, Ernesto Bribiesca, Adolfo Guzman
Universidad Nacional Autonoma de Mexico, Mexico;
Instituto Politecnico Nacional, Mexico

03:00 - 03:20pm: BREAK
03:20 - 03:40pm: On Real-Time LIDAR Data Segmentation and Classification
Dmitriy Korchev, Shinko Cheng, Yuri Owechko, Kyungnam (Ken) Kim
HRL, LLC, USA; Google, USA

03:40 - 04:00pm: Denoising Time-Of-Flight Depth Maps Using Temporal Median Filter
Fang-Yu Li, Yi-Leh Wu, Wei-Chih Hung
National Taiwan University of Science and Technology, Taiwan

04:00 - 04:20pm: Robust Model for Vehicle Type Identification in Video Traffic Surveillance
Rensso V. H. Mora Colque and Guillermo Camara-Chavez
Universidade Federal de Ouro Preto, Brazil; Universidad Catolica San Pablo, Departamento de Ciencias de la Computacion Arequipa-Peru, Peru

04:20 - 04:40pm: A Dynamic Background Subtraction Method For Detecting Walkers Using Mobile Stereo-Camera
Masaki Kasahara and Hiroshi Hanaizumi
Hosei University Graduate School of Computer and Information Sciences, Tokyo, Japan

04:40 - 05:00pm: Performance Evaluation of Depth Map Upsampling on 3D Perception of Stereoscopic Images
Jong In Gil and Manbae Kim
Kangwon National University, Republic of Korea

05:00 - 05:20pm: Detecting Handwritten Annotation by Synchronization of Lecture Slides and Videos
Jing-Lun Kao, Shu-Yuan Chen, and Der-Jyh Duh
Yuan Ze University, Taiwan; Chien Hsin University of Science and Technology, Taiwan

05:20 - 05:40pm: A New Multi-phase Soft Segmentation with Adaptive Variants
Hongyuan Wang and Fuhua Chen
Changzhou University, P. R. China; West Liberty University, West Virginia, USA

05:40 - 06:00pm: On Using Class-dependent Principle Component Analysis for Dissimilarity-Based Classifications
Sang-Woon Kim
Myongji University, Yongin, Korea

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
PDPTA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Parallel and Distributed Processing Techniques and Applications

There are a number of other sessions (not listed as part of PDPTA'13 in this schedule) that are of potential interest to PDPTA'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in BIOCOMP'13, CDES'13, ERSA'13, GCA'13, ICOMP'13, ICWN'13, and SwWS'13 conferences discuss topics that are within the scope of PDPTA'13; these have been scheduled so that selected PDPTA'13 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

01:00 - 01:20pm: SuperViewer: An Interactive Visual Interface to Explore the Top500 List
Leonidas Deligiannidis, Erik Noyes, Hamid R. Arabnia
Wentworth Institute of Technology, Boston, MA, USA; Babson College, Babson Park, MA, USA; University of Georgia, Athens, Georgia, USA
(LOCATION: Cohiba 10)

SESSION 1-PDPTA: WORKSHOP: MATHEMATICAL MODELING AND PROBLEM SOLVING - MPS
Chairs: Prof. Minoru Ito, Nara Institute of Science & Technology, Japan
July 22, 2013 (Monday); 01:20pm - 06:00pm
(LOCATION: Cohiba 10)

01:20 - 01:40pm: Inferring Strengths of Protein-Protein Interactions Using Support Vector Regression
Yusuke Sakuma, Mayumi Kamada, Morihiro Hayashida, Tatsuya Akutsu
Bioinformatics Center, Institute for Chemical Research, Kyoto University, Gokasho, Kyoto, Japan

01:40 - 02:00pm: Mining Infrequent Patterns of Two Frequent Substrings from a Single Set of Biological Sequences
Daisuke Ikeda
Kyushu University, Fukuoka, Japan

02:00 - 02:20pm: SDBP: An Easy-to-use R Program Package for Assessing Reliability of Estimated Phylogenetic Trees Based on the Speedy Double Bootstrap Method
Aizhen Ren, Takashi Ishida, Yutaka Akiyama
Tokyo Institute of Technology, Ookayama, Tokyo, Japan

02:20 - 02:40pm: Acceleration of Tandem Mass Spectrometry Analysis Software CoCoozo using Multi-core CPUs and Graphics Processing Units
Yasufumi Obata, Takashi Ishida, Tohru Natsume, Yutaka Akiyama
Tokyo Institute of Technology, Ookayama, Tokyo, Japan

02:40 - 03:00pm: A Case Study of Calculation of Source Code Module Importance
Takaaki Goto, Setsuo Yamada, Tetsuro Nishino, Kensei Tsuchida
The University of Electro-Communications, Chofu, Tokyo, Japan

03:00 - 03:20pm: BREAK
03:20 - 03:40pm: Implementation of the Orthogonal QD Algorithm for Lower Tridiagonal Matrices
Sho Araki, Hiroki Tanaka, Kinji Kimura, Yoshimasa Nakamura
Kyoto University, Yoshidahonmachi, Sakyo-ku, Kyoto, Japan

03:40 - 04:00pm: Improved Computation of Bounds for Positive Roots of Polynomials
Masami Takata, Takuto Akiyama, Sho Araki, Kinji Kimura, and Yoshimasa Nakamura
Kyoto University, Yoshidahonmachi, Sakyo-ku, Kyoto, Japan

04:00 - 04:20pm: Latent Feature Independent Cascade Model for Social Propagation
Yuya Yoshikawa, Tomoharu Iwata, Hiroshi Sawada
Nara Institute of Science and Technology, Graduate School of Information Science, Ikoma, Nara, Japan

04:20 - 04:40pm: Decidability of k-Secrecy Against Inference Attacks Using Functional Dependencies on XML Databases
Nobuaki Yamazoe, Kenji Hashimoto, Yasunori Ishihara, Toru Fujiwara
Osaka University, Suita, Japan

04:40 - 05:00pm: Implementation of Multiple Classifier System on MapReduce Framework for Intrusion Detection
Masataka Mizukoshi, Shitaro Bando, Martin Schlueter, Masaharu Munetomo
Hokkaido University, Sapporo, Japan

05:00 - 05:20pm: A Change of Order Balance Implies Intraday Price Trend in Japanese Stock Market
Hwion Yoon
CMD Laboratory Inc., Sendagaya, Shibuya-ku, Tokyo, Japan

05:20 - 05:40pm: Acceleration of Protein-ligand Docking Simulation Using Graphics Processing Units
Takahiro Sasaki, Takuro Udagawa, Masakazu Sekijima
Tokyo Institute of Technology, Ookayama, Tokyo, Japan

05:40 - 06:00pm: Poisson Observed Image Restoration using a Latent Variational Approximation with Gaussian MRF
Hayaru Shouno and Masato Okada
University of Electro-Communications, Chofu, Tokyo, Japan

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
There are a number of other sessions (not listed as part of SAM'13 in this schedule) that are of potential interest to SAM'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in ICWN'13, FECS'13, ICOMP'13, and IKE'13 conferences discuss topics that are within the scope of SAM'13; these have been scheduled so that selected SAM'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-SAM: SECURITY MANAGEMENT + SECURITY EDUCATION + COMPUTER SECURITY + HARDWARE SECURITY
Chair: Dr. Dusan Stevanovic, York University, Toronto, Canada
July 22, 2013 (Monday); 01:00pm - 02:20pm
(LOCATION: Cohiba 11)

01:00 - 01:20pm: Using Client-Side JavaScript to Mitigate Drive-by-Downloads
Abner Mendoza and Narasimha Shashidhar
Sam Houston State University, Huntsville, Texas, USA

01:20 - 01:40pm: Secure NAND Flash Architecture Resilient to Strong Fault-Injection Attacks Using Algebraic Manipulation Detection Code
Pei Luo, Zhen Wang, Mark Karpovsky
Reliable Computing Lab, Electrical and Computer Engineering, Boston University, Boston, MA, USA; Mediatek Wireless, Inc., USA

01:40 - 02:00pm: An Integrated Approach to Defence Against Degrading Application-Layer DDoS Attacks
Dusan Stevanovic and Natalija Vlajic
Department of Computer Science and Engineering, York University, Toronto, Canada

02:00 - 02:20pm: Multi-disciplinary Approach to Cyber Security Education
Wendy A. Lawrence-Fowler
The University of Texas-Pan American, Texas, USA

SESSION 2-SAM: BIOMETRIC AND FORENSICS
Co-Chairs: Dr. Cristina Soviany, IDES Technologies, Belgium, Dr. Gregory Vert, Texas A&M University, USA
July 22, 2013 (Monday); 02:20pm - 04:20pm
(LOCATION: Cohiba 11)

02:20 - 02:40pm: Fingerprinting Malware Using Bioinformatics Tools Building a Classifier for the Zeus Virus
Jay Pedersen, Dhundy Bastola, Ken Dick, Robin Gandhi, William Mahoney
University of Nebraska at Omaha, Omaha, Nebraska, USA

02:40 - 03:00pm: Combination of Fingerprint and Password System
KyoungYul Bae and Hyun Byun
Sangmyung University, Republic of Korea
03:00 - 03:20pm: BREAK

03:20 - 03:40pm: A Biometric Authentication System That Automatically Generates Feature Points
Hiroshi Dozono, Youki Inaba, Masanori Nakakun
Saga University, Japan; Fukuoka University, Fukuoka, Japan

03:40 - 04:00pm: A Biometric Security Model with Identities Detection and Local Feature-level Fusion
Sorin Soviany and Cristina Soviany
Communications Terminals and Telematics Department, I.N.S.C.C., Bucharest, Romania; IDES Technologies, Bruxelles, Belgium

04:00 - 04:20pm: Framework for Next Generation Digital Forensics Models
Mohsen M. Doroodchi and Amjad Ali
Center for Security Studies, University of Maryland, University College Adelphi, Maryland, USA

SESSION 3-SAM: COMPUTER SECURITY I
Chair: Prof. Kathy Liszka, University of Akron, USA
July 22, 2013 (Monday); 04:20pm - 05:20pm
(LOCATION: Cohiba 11)

04:20 - 04:40pm: QR Code Steganography
Donny Jacob Ohana and Narasimha Shashidhar
Sam Houston State University, Huntsville, Texas, USA

04:40 - 05:00pm: Dynamic Analysis of Malicious Code and Response System
Ajay Katangur, Vinay Chaitankar, Dulal Kar, Somasheker Akkaladevi
Texas A&M University-Corpus Christi, Corpus Christi, Texas, USA;
Virginia State University, Petersburg, Virginia, USA

05:00 - 05:20pm: Towards High Reliability of a Multi-Agent System Designed for Intrusion Detection in MANET
Leila Mechtri, Fatiha T. Djemili, Salim Ghanemi
Badji-Mokhtar University, Annaba, Algeria

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the begining of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
SERP'13 & FCS'13 CONFERENCE SCHEDULES

The 2013 International Conference on
Software Engineering Research and Practice
(SERP'13)
+
The 2013 International Conference on
Foundations of Computer Science
(FCS'13)

Because of topical overlap between SERP'13 and FCS'13 tracks, the schedules of these two conferences have been merged into one comprehensive schedule. It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas.

There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to SERP'13 and FCS'13 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in CSC'13, EEE'13, FECS'13, ICOMP'13, SAM'13, and SWWS'13 conferences discuss topics that are within the scope of SERP'13 and FCS'13; these have been scheduled so that selected SERP'13 and FCS'13 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

SESSION 1-FCS:  GRAPH BASED METHODS + RELATED ISSUES
Co-Chairs: Dr. Laurie J. Patterson, University of North Carolina Wilmington, USA; Dr. Ajay Katangur, Texas A&M University – Corpus Christi, Texas, USA; Dr. Poonam Kumar Sharma, D.A.V. College, Jalandhar (Punjab), India
July 22, 2013 (Monday); 01:00pm - 02:20pm (LOCATION: Montecristo 1)

01:00 - 01:20pm:  Generating Edge Covers of Path Graphs
J. Raymudno Marcial-Romero, J. A. Hernandez, Vianney Munoz-Jimenez, and Hector A. Montes-Venegas
Universidad Autonoma Del Estado De Mexico, Mexico

01:20 - 01:40pm:  Finding Paths with Minimum Shared Edges in Graphs with Bounded Treewidth
Zhiqian Ye, Yiming Li, Hui-Qiang Lu, Xiao Zhou
Zhejiang University, P. R. China; Wenzhou University, P. R. China; Zhejiang University of Technology, P. R. China; Tohoku University, Japan

01:40 - 02:00pm:  Labeling for Vertices in Strict 2-Threshold Graphs
Wei-Da Hao
Texas A&M University-Kingsville, Texas, USA
02:00 - 02:20pm: Weak Convex Restrained Dominating Critical Graphs
P.J.A. Alphonse and T.N. Janakiraman
National Institute of Technology, Tiruchirappalli, India

SESSION 2-SERP: NOVEL APPLICATIONS, METHODOLOGIES & CASE STUDIES + INTELLECTUAL PROPERTY ISSUES + EDUCATION
Co-Chairs: Dr. Nasser Tadayon, Southern Utah University, Utah, USA; Dr. Damian Valles, Montana Tech of U of M, USA
July 22, 2013 (Monday); 02:20pm - 06:00pm
(LOCATION: Montecristo 1)

02:20 - 02:40pm: An Approach to Configuration-based Generation of Validation Rules for Shipdex
Youhee Choi, Jeong-Ho Park, Byungtae Jang
Electronics and Telecommunications Research Institute, Korea

02:40 - 03:00pm: Principles for Profiling Healthcare Data Communication Standards
Robert Snelick and Frank Oemig
National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA; Agfa Healthcare, Bonn, Germany

03:00 - 03:20pm: A Model Driven Serious Games Development Approach for Game-based Learning
Stephen Tang and Martin Hanneghan
Liverpool John Moores University, Liverpool, UK

03:20 - 03:40pm: Rocket Aiming Project: A Service Learning Study
Johnny Carroll, Chao Zhao, Feridoon Moinian, Mike Estep
Cameron University, Oklahoma, USA

03:40 - 04:00pm: Concurrent Collaborative Captioning
Mike Wald
University of Southampton, UK

04:00 - 04:20pm: FREE SLOT

04:20 - 04:40pm: Research Trends and Open Issues in Mobile Application Software Engineering
Mark Rowan and Josh Dehlinger
Towson University, Maryland, USA

04:40 - 05:00pm: Strategies to Improve Development in Brazilian Financial Institution Integrating Distinct Environments
Claudio Goncalves Bernardo and Paulo Roberto Chineara Batuta
Universidade Paulista, Centro Universitario de Araraquara, Brazil

05:00 - 05:20pm: Teams Using Real World Projects in a Software Engineering Course
Nasser Tadayon
Southern Utah University, Utah, USA

05:20 - 05:40pm: Managing User Accounts in Numerous Information Systems in the University
Askar Boranbayev, Mikhail Mazhitov, Rinat Yamalutdinov
Nazarbayev University, Republic of Kazakhstan

05:40 - 06:00pm: Determining Software System Type from Software Requirement Specification
Suneeta H. Angadi, Mohan S., G. T. Raju
RNSIT, Bangalore, India; NGPIT, Coimbatore, India
06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL
July 22 - Monday; 09:00pm - 11:45pm
(LOCATION: Pavilion)
The 2013 International Conference on Bioinformatics & Computational Biology

08:00 - 10:20am During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ESA'13, GEM'13, ICAI'13, ICOMP'13, IKE'13, PDPTA'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of BIOCOMP'13.

10:20 - 11:00am: POSTER/DISCUSSION SESSION A-BIOCOMP
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

SESSION 3-BIOCOMP: DATA & INFORMATION MINING + COMPUTATIONAL BIOLOGY + MEDICAL SCIENCE, MODELS, & SYSTEMS + BIOMETRICS
Co-Chairs: Abhishek Narain Singh, Adjunct Faculty, Computer Science, Virginia Tech, USA
July 23, 2013 (Tuesday); 11:00am - 12:20pm
(LOCATION: Montecristo 3)

11:00 - 11:20am: Cloud-Accelerated Data-Mining for Putative Heteromeric Transcription Factors and Target Genes Using Microarray Gene Expression Profiles
Edward A. Salinas and Amitava Karmaker
Independent Researcher, Rockville, Maryland, USA;
University of Wisconsin - Stout, Wisconsin, USA

11:20 - 11:40am: Mining Accurate Shared Decision Trees from Microarray Gene Expression Data for Different Cancers
Guozhu Dong and Qian Han
Wright State University, Dayton, Ohio, USA

11:40 - 12:00pm: Laterality of Motor Control or Raised Intracranial Pressure: Physiology vs Physics in Explaining Ipsilateral Signs in Supratentorial Lesions in Human
Iraj Derakhshan
Formerly, Associate Professor of Neurology, Case Western Reserve and Cincinnati Universities, USA;
Practicing MD, Neurologist, Charleston, West Virginia, USA

12:00 - 12:20pm: Analysis on Low Prevalence of RAS Mutations in Human Papillary Thyroid Cancer
Shaukat Iqbal Malik, Zoya Khalid1, S. Sameen
Atta-ul-Rahman School of Applied Biosciences (ASAB), National University of Sciences & Technology (NUST), Pakistan; Sabanci University, Turkey

12:20 - 01:20pm: LUNCH (On Your Own)
SESSION 4-BIOCOMP: SEQUENCING AND BIOTECHNOLOGY + BIOINFORMATICS

Co-Chairs: Dr. Ananda Mondal, Claflin University, USA; Prof. Steven M. Carr, Memorial University of Newfoundland, Canada; Abhishek Narain Singh, Adjunct Faculty Virginia Tech, USA

July 23, 2013 (Tuesday); 01:20pm - 06:00pm
(LOCATION: Montecristo 3)

01:20 - 01:40pm: Using Bioinformatics Shotgun Method and Hamilton Path for DNA Sequence Assembly
Michael Shan-Hui Ho, Kun-Yu Hung, Yu-Shiang Gen, Chao-Chang Chiu, and Pin-Shuo Huang
National Taipei University, Taiwan, ROC; Ming Chuan University, Taiwan; Yuan Ze University, Taiwan, ROC

01:40 - 02:00pm: A Logical Model for Metabolic Networks With Inhibition
Robert Demolombe, Luis Farinas del Cerro, Naji Obeid
Universite de Toulouse and CNRS, IRIT, Toulouse, France

02:00 - 02:20pm: A Novel Approach for Heuristic Pairwise DNA Sequence Alignment
Beat Wolf and Pierre Kuonen
University of Applied Sciences Western Switzerland, Switzerland

02:20 - 02:40pm: A Framework for a General-Purpose Sequence Compression Pipeline: A Centroid Based Compression
Liqing Zhang, Daniel Nasko, Martin Triska, Skip Garner
Virginia Tech, Virginia, USA; Center for Bioinformatics and Computational Biology, University of Delaware, USA; Glamorgan Computational Biology Research Group, University of Glamorgan, UK

02:40 - 03:00pm: Classification of DNA Sequences by a MLP and SVM Network
Terje Kristensen and Fabien Guillaume
Begen University College, Norway; Pattern Solutions Ltd., Norway

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Parallelization of Composition Vector Method for Sequence Similarity Analysis
Manoj Gupta, Aniket Mittal, Rajdeep Niyogi, Manoj Mishra
Indian Institute of Technology, Roorkee, India

03:40 - 04:00pm: Majority logic decoding: a discrete method for detecting differential expression in RNA-Seq data
Roberto Arce Corretjer and Humberto Ortiz-Zuazaga
University of Puerto Rico, Rio Piedras, Puerto Rico

04:00 - 04:20pm: Research on Genome Characteristics for Minimal Genome Designing Tool in Streptococcus
Chung S Rhee, Sehi Lyi, Whi Ju Hong, Sehee Jeong, Young-Chang Kim, and Dae Hyun Chung
Chungbuk National University, Korea

04:20 - 04:40pm: V.I.S SYSTEM (2) - DNA Sequencing and Reading From Eye Photo
Boucherit Taieb
Boucherit Laboratory, Oran, Algeria

04:40 - 05:00pm: New Perspectives of Barcoding of Biotechnological Bacterial Strains by Using NGS Data
University of Pretoria, Hillcrest, Pretoria, South Africa; Institute of Microbiology & Virology NAS of Ukraine, Kiev, Ukraine; ABITEP GmbH, Glenicker Weg, Berlin, Germany
05:00 - 05:20pm: Biomimetic Pattern Recognition for Cancer Detection Using DNA Microarray Data
Charles H. Lee and Leonila Lagunes
California State University, Fullerton, California, USA

05:20 - 05:40pm: Multiple Sequence Alignments Using Motif Assembly
Charnelle Smoak, Alex Ropelewski, Albert Esterline
North Carolina A&T State University, North Carolina, USA; Pittsburgh Supercomputing Center, Pittsburgh, PA, USA

05:40 - 06:00pm: Known Knowns, Known Unknowns, and Unknown Unknowns - CS for analysis of multidimensional DNA matrices in Evolutionary Genomics
Steven M. Carr
Memorial University of Newfoundland, Canada

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 3-MSV: SIMULATION AND NUMERICAL METHODS + MODELING
Co-Chairs: Dr. Chenn Qian Zhou, Purdue University Calumet, USA
July 23, 2013 (Tuesday): 08:00am - 10:20am
(LOCATION: Montecristo 4)

08:00 - 08:20am: Simulation and Monitoring of a University Network for Bandwidth Efficiency Utilization
Samuel N. John, Charles U. Ndujuiba, Robert Okonigene, and Ndeche Kenechukwu
Covenant University, Ogun State, Nigeria

08:20 - 08:40am: EpiViz: A Visual Simulation of an Epidemic Model Using a Cellular Automaton
Matthew J. Farmer and Tina V. Johnson
Midwestern State University, Texas, USA

08:40 - 09:00am: Numeric Simulation Tool of the Weaving Process
J. Vilfayeau, F. Boussu, D. CrePin, D. Soulat, P. Boisse
ENSAIT, GEMTEX, Roubaix, France;
LAMCOS, UMR CNRS, INSA Lyon, Villeurbanne, France;
University Lille Nord de France, Lille, France

09:00 - 09:20am: Effective Early Stage Model-Based Testing for an IT UI Application
Xin Bai and Alexander Ivaniukovich
Microsoft Corporation, One Microsoft Way, Redmond, Washington, USA

09:20 - 09:40am: Survey of Techniques to Increase Accuracy of Touch Screen Devices
Xiaoyuan Suo
Webster University, Saint Louis, MO, USA

09:40 - 10:00am: Translating MOKA Based Knowledge Models into a Generative CAD Model in CATIA V5 Using Knowledgeware
Lohith ML, Laxmi Prasanna, Devaraja Holla Vaderahobli
Infosys Limited, Washington, USA

10:00 - 10:20am: FPGA Synthesis of Glucose-Insulin Feedback System
Sourav Dutta and Nazih M. Botros
Southern Illinois University Carbondale, Illinois, USA
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-CSC-MSV-CGVR
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. Effective Parallel Simulation of Coupled Processes in CO2 Sequestration in Porous and Fractured Formations
Yu-Shu Wu, Ronglei Zhang, P. H. Winterfeld
Petroleum Engineering Dept., Colorado School of Mines, Colorado, USA

O. Simulation of a Remote Sensing System for Fire Detection
Carsten Paproth and Anko Borner
Optical Information Systems, German Aerospace Center, DLR, Berlin, Germany

O. Numerical Simulation of Supersonic Combustion Using Liquid Hydrocarbon Fuel
Tsung Leo Jiang, Jui-Chi Cheng, Hsiang-Yu Huang
Department of Aeronautics and Astronautics, National Cheng Kung University, Tainan City, Taiwan, ROC

O. ...

SESSION 4-CGVR: VIRTUAL REALITY + GRAPHICS + ANIMATION & RELATED METHODS
Co-Chairs: Dr. Samuel Ndueso John, Head, Dept. of Electrical & Information Engineering, Covenant University, Nigeria
July 23, 2013 (Tuesday); 11:00am - 02:20pm
(LOCATION: Montecristo 4)

11:00 - 11:20am: Plasma Visualization in Parallel Using Particle Systems on Graphical Processing Units
T. S. Lyes and K. A. Hawick
Massey University, Auckland, New Zealand

11:20 - 11:40am: The Component Entity System for Virtual Environments
Justin Ehrlich
Western Illinois University, Macomb, Illinois, USA

11:40 - 12:00pm: Data Structures Learning - A Visually Assisted Approach
Loay Alzubaidi and Ammar El Hassan
Prince Muhammad bin Fahd University, Saudi Arabia

12:00 - 12:20pm: Generation and Rendering of Fractal Terrains on Approximated Spherical Surfaces
J. M. Willemse and K. A Hawick
Massey University, Auckland, New Zealand

12:20 - 12:40pm: Proposal of the Digital Art Watching System Letting Picture and Visitor Fuse in Real Time
Koji Fujita and Takayuki Fujimoto
Graduate School of Engineering, Toyo University, Japan

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 4-CGVR: Continued ... VIRTUAL REALITY + GRAPHICS + ANIMATION & RELATED METHODS
(LOCATION: Montecristo 4)

01:20 - 01:40pm: BodySpeech: A configurable full body animation system for speaking avatars
Adso Fernandez-Baena, Marc Antonijuan, Raul Montano
Grup de Tecnologies Media (GTM), La Salle - Universitat Ramon Llull, Barcelona, Spain
01:40 - 02:00pm: Animating TTS Messages in Android Using OpenSource Tools
Ronald Yu, Tong Lai Yu, Ihab Zbib
University of California, Irvine, California, USA;
California State University, San Bernardino, California, USA

02:00 - 02:20pm: A Pipeline From COLLADA to WebGL for Skeletal Animation
Jeffery McRiffey, Ralph M. Butler, Chrisila C. Pettey
Middle Tennessee State University, Murfreesboro, Tennessee, USA

SESSION 5-MSV: VISUALIZATION, GRAPHICAL USER INTERFACE, TOOLS & TECHNIQUES
Co-Chairs: John Moreland, Center for Innovation through Visualization and Simulation (CIVS), Purdue University Calumet, USA
July 23, 2013 (Tuesday); 02:20pm - 04:20pm
(LOCATION: Montecristo 4)

02:20 - 02:40pm: Visualization of Mobility-density Relation in a Modified Percolation Agent-based Model
Bruce Paizen, Jay Kraut, Marcia R. Friesen, Robert D. McLeod
University of Manitoba, Canada; Associated Engineering Group Ltd.; Laboratory for Surgical Modeling, Simulation and Robotics, Health Sciences Centre, Winnipeg, Manitoba, Canada

02:40 - 03:00pm: Triangular Prism Element Optimization for Mesh Visualization of Printed Circuit Boards
Karen Daniels and Shu Ye
University of Massachusetts Lowell, Massachusetts, USA

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: VisualNet: General Purpose Visualization Tool for Wireless Sensor Networks
Saad Rizvi and Ken Ferens
University of Manitoba, Winnipeg, Manitoba, Canada

03:40 - 04:00pm: Effective Visualization Tool for Job Searching
Yilin Gu, Andries H. Smith, Jong Kwan Lee, Xinyue Ye, and Soo K. Kim
Bowling Green State University, Ohio, USA;
Clarion University of Pennsylvania, PA, USA

04:00 - 04:20pm: Development of the Web-Based Structure and Form Analysis System (SAFAS) for Architectural Education
Mehdi Setareh, Felipe Bacim, Nicholas Polys, Brett Jones
Virginia Tech, Blacksburg, Virginia, USA

SESSION 6-CSC: SCIENTIFIC & ENGINEERING ALGORITHMS & APPLICATIONS + COMPLEX SYSTEMS + MEDICAL SCIENCE
Co-Chairs: Dr. Akash, Singh, IBM Corporation, USA
July 23, 2013 (Tuesday); 04:20pm - 06:00pm
(LOCATION: Montecristo 4)

04:20 - 04:40pm: A Random Number Based Method for Monte Carlo Integration
Jin Wang
Valdosta State University, Valdosta, Georgia, USA

04:40 - 05:00pm: Implementing Universal CNN Neuron
Luxia Xu, Fangyue Chen, Han Huang
Hangzhou Dianzi University, Hangzhou, Zhejiang, P. R. China
05:00 - 05:20pm: Practical Guidance on the Application of R-K Integration Method in Finite Element Analysis of Creep Damage Problem
Feng Tan, Qiang Xu, Zhongyu Lu, Donglai Xu, Dezheng Liu
Teesside University, Middlesbrough, UK; University of Huddersfield, Huddersfield, UK

05:20 - 05:40pm: On the Exact Explicit Solutions of a Generalized (2+1)-Dimensional Zakharov-Kuznetsov-Benjamin-Bona-Mahony Equation
Khadijo Rashid Adem and Chaudry Masood Khalique
International Institute for Symmetry Analysis and Mathematical Modelling, North-West University, Mafikeng Campus, South Africa

05:40 - 06:00pm: Intuitionistic Fuzzy Bi-Ideal of a Ring
P.K.Sharma and Aradhna Duggal
P.G. Department of Mathematics, D.A.V.College, Jalandhar City, Punjab, India; Department of Mathematics, S.G.G.S. Khalsa College, Mahil Pur, Punjab, India

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the begining of this book)
The 2013 International Conference on
Data Mining

SESSION 2-DMIN:  REGRESSION, CLASSIFICATION
Co-Chairs: Dr. Robert Stahlbock (University of Hamburg, Germany),
and Dr. Gary M. Weiss (Fordham University, New York, USA)
July 23, 2013 (Tuesday); 08:00am - 10:20am
(LOCATION: Cohiba 3)

08:00 - 08:20am:  FREE SLOT
08:20 - 08:40am:  FREE SLOT
08:40 - 09:00am:  A Multi-scale Nonparametric/Parametric Hybrid Recognition Strategy
Zhao Lu and Zheng Lu
Tuskegee University, USA
09:00 - 09:20am:  SVM-Based Approaches for Predictive Modeling of Survival Data
Han-Tai Shiao and Vladimir Cherkassky
University of Minnesota, USA
09:20 - 09:40am:  Gaussian Process Regression with Dynamic Active Set and Its
Application to Anomaly Detection
Toshikazu Wada, Yuki Matsumura, Shunji Maeda, Hisae Shibuya
Wakayama University, Japan
09:40 - 10:00am:  A Study of kNN Using ICU Multivariate Time Series Data
Dan Li, Admir Djulovic, Jianfeng Xu
Eastern Washington University, USA
10:00 - 10:20am:  Genetic Algorithms and Classification Trees in Feature Discovery:
Diabetes and the NHANES Database
Alejandro Heredia-Langner, Kristin H. Jarman, Brett G. Amidan,
and Joel G. Pounds
Pacific Northwest National Laboratory, USA

10:20 - 11:00am:  POSTER/DISCUSSION SESSION
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

SESSION 3-DMIN:  REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, AND PERSPECTIVES II
Co-Chairs: Dr. Mahmoud Abou-Nasr (Ford Motor Company, USA),
Dr. Robert Stahlbock (University of Hamburg, Germany),
Dr. Gary M. Weiss (Fordham University, New York, USA)
July 23, 2013 (Tuesday); 11:00am - 12:40pm
(LOCATION: Cohiba 3)

11:00 - 11:20am:  Reliable Probabilistic Classification of Mammographic Masses
Using Random Forests
Hechmi Shili
MARS Research Group, University of Monastir, Tunisia
11:20 - 11:40am:  Alleviating the Class Imbalance Problem in Data Mining
Akkenzhe Sarmanova
Yildiz Technical University, Turkey
11:40 - 12:00pm: Neural Network Forecasting with the S&P 500 Index Across Decades
Mary Malliaris and A. G. Malliaris
Loyola University Chicago, Illinois, USA

12:00 - 12:20pm: Data Uncertainty Handling in High Level Information Fusion
Robert Woodley, Michael Gosnell, Amber Fischer
21st Century Systems, Inc., USA

12:20 - 12:40pm: A Preliminary Approach to Study the Causality of Freezing of Gait for Parkinson's: Bayesian Belief ...
Zaarour Iyad
Lebanese University, Lebanon

12:40 - 01:40pm: LUNCH (On Your Own)

SESSION 4-DMIN: REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, AND PERSPECTIVES III
Co-Chairs: Dr. Mahmoud Abou-Nasr (Ford Motor Company, USA), Dr. Robert Stahlbock (University of Hamburg, Germany), Dr. Gary M. Weiss (Fordham University, New York, USA)
July 23, 2013 (Tuesday); 01:40pm - 03:20pm
(LOCATION: Cohiba 3)

01:40 - 02:00pm: Evaluation of Monte Carlo Subspace Clustering with OpenSubspace
David Hunn and Clark Olson
University of Washington, Seattle, Washington, USA

02:00 - 02:20pm: Actions Ontology System for Action Rules Discovery in Mammographic Mass Data
Angelina Tzacheva, Erik Koenig, Justin Pardue
University of South Carolina Upstate, USA

02:20 - 02:40pm: GDP Forecasting through Data Mining of Seaport Export-Import Records
Raymond Joseph
Indian Institute of Technology Madras, India

02:40 - 03:00pm: Extending Local Similarity Indexes with KNN for Link Prediction
Greg Speegle, Yilan Bai, Young-Rae Cho
Baylor University, USA

03:00 - 03:20pm: Toward Sustainable High-Yield Agriculture via Intelligent Control Systems
Brian McLaughlan and James Brandli
University of Arkansas - Fort Smith, USA

03:20 - 03:40pm: BREAK

SESSION 5-DMIN: REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, AND PERSPECTIVES IV
Co-Chairs: Dr. Mahmoud Abou-Nasr (Ford Motor Company, USA), Dr. Robert Stahlbock (University of Hamburg, Germany), Dr. Gary M. Weiss (Fordham University, New York, USA)
July 23, 2013 (Tuesday); 03:40pm - 05:00pm
(LOCATION: Cohiba 3)

03:40 - 04:00pm: A New Simple Classification Algorithm enabling a New Approach for Identification of Virtual Bullying
Keb Burn-Thornton and Tim Burman
Grey College, University of Durham, UK

04:00 - 04:20pm: Flash Reactivity: Adaptable models in recommender systems
Julien Gaillard, Marc El-Beze, Eitan Altman, Emmanuel Ethis
University of Avignon, INRIA, France

46
04:20 - 04:40pm: Analysis of Truck Compressor Failures Based on Logged Vehicle Data
Nowaczyk Slawomir, Rune Prytz, Thorsteinn Rognvaldsson,
and Stefan Byttner
Halmstad University, Sweden

04:40 - 05:00pm: Proposed Business Intelligence Models for Medical Risk Assessment
Edward Wadid1, Nevine Makram Labib, Sayed Abdel Wahab
British Univ. in Egypt, Sadat Academy for Management Sci., Egypt

05:00 - 07:00pm: TUTORIAL
Visualization & Data Mining for High Dimensional Datasets
Prof. Alfred Inselberg
School of Mathematical Sciences, Tel Aviv University, Israel; Senior
Fellow, San Diego Supercomputing Center; Inventor of the
multidimensional system of Parallel Coordinates and author of
textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",
(praised by Stephen Hawking among others.)
(LOCATION: Cohiba 3)
EEE'13 & IKE'13 CONFERENCE SCHEDULES

The 2013 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'13)

+ The 2013 International Conference on Information & Knowledge Engineering (IKE'13)

SESSION 3-IKE/EEE: NOVEL METHODOLOGIES & APPLICATIONS + DECISION SUPPORT SYSTEMS + EDUCATIONAL TOOLS

Co-Chairs: Prof. Kamran Ahsan, Federal Urdu University of Arts, Science & Technology, Karachi, Pakistan; Kato Mivule, Bowie State University, Maryland, USA

July 23, 2013 (Tuesday); 08:00am - 10:20am

(LOCATION: Montecristo 3)

08:00 - 08:20am: Face Recognition System Based On Doubly Truncated Multivariate Gaussian Mixture Model
D. Haritha, K. Srinivasa Rao, B. Kiran Kumar, Ch. Satyanarayana Jawaharlal Nehru Technological University, Kakinada, India; Andhra University, India; APTRANSCO, India

08:20 - 08:40am: Towards Framework for Modelling and Reusing Medical Knowledge in South Africa
Muhandji Kikunga and Obeten O. Ekabua
North-West University, South Africa

08:40 - 09:00am: Proposal Of The Integrative Class Assistance System Using Smart Phone
Kazuya Murata and Takayuki Fujimoto
Graduate School of Engineering, Toyo University, Saitama, Japan

09:00 - 09:20am: Bayesian Structural Learning with Minimum Spanning Tree Algorithm
Safiye Sencer, Orhan Torkul, Harun Taskin, Ercan Oztemel, Cemalettin Kubat, and Gultekin Yildiz
Sakarya University, Turkey; Marmara University, Turkey

09:20 - 09:40am: Face Recognition For The Visually Impaired
Rabia Jafri, Syed Abid Ali, Hamid R. Arabnia
King Saud University, Riyadh, Saudi Arabia; Araware, Wilmington, Delaware, USA; University of Georgia, USA

09:40 - 10:00am: A Fuzzy Multiple Objective Decision Making Methodology for Electricity Generation Planning
Mehtap Dursun, E. Ertugrul Karsak, Zeynep Sener
Industrial Engineering Department, Galatasaray University, Istanbul, Turkey

10:00 - 10:20am: The Interpretation of Maintainability Quality Attribute into Assessed Requirements
Mona Mohamed Abd Elghany, Nermine Mohamed Khalifa, and Marwa Mohamed Abd Elghany
Arab Academy for Science & Technology, Egypt
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-EEE-IKE
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. An Investigation of Data Privacy and Utility Preservation Using kNN Classification as a Gauge
Kato Mivule and Claude Turner
Bowie State University, USA

O. On-Line Weighted Matrix Factorization For TV Program Recommendation
Jin Jeon and Munchurl Kim
Korea Advanced Institute of Science and Technology, Daejeon, Korea

O. Remote-Access Enhanced Laboratory for the Course Microprocessors and Systems
Jing Zhang and Karthik Devarajan
University of Arkansas at Little Rock, Arkansas, USA

O. An English Listening Learning Framework Based on the Learning Emotion
Yu-Chen Kuo and Tsu-Yang Wang
Soochow University, Taipei, Taiwan

O. Enhancing Community and Program Delivery with Cohorts in a 100% Online Graduate Program in Applied Computer Science
Adel Abunawass and Edwin Rudolph
University of West Georgia, Georgia, USA

O. ...

11:00 - 12:20pm: During this period, EEE and IKE attendees are encouraged to participate in sessions belonging to BIOCOMP'13, FECS'13, GEM'13, ICAI'13, ICOMP'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of EEE and IKE.

12:20 - 01:40pm: LUNCH (On Your Own)

SESSION 4-EEE: LEARNING METHODS, E-LEARNING + EDUCATIONAL TOOLS, & RELATED ISSUES
Co-Chairs: Dr. Charles Balch, Northern Arizona University, USA; Prof. Albert Chan, Fayetteville State University, USA; Kato Mivule, Bowie State University, Maryland, USA
July 23, 2013 (Tuesday); 01:40pm - 03:00pm
(LOCATION: Montecristo 2)

01:40 - 02:00pm: Designing an Online Course to Promote Deep Learning Outcomes
Becka Morgan
Western Oregon University, Oregon, USA

02:00 - 02:20pm: A Programmer Self-training System with Programming Skill Evaluation and Personalized Task Recommendation
Shu Lin, Qinjian Zhang, Wenxin Li
Peking University, Beijing, P. R. China

02:20 - 02:40pm: E-training: Combatting Training Costs in New Normal
Tabby Harraf
University of Northern Colorado, Greeley, Colorado, USA

02:40 - 03:00pm: An Online Methodology for Individualized Education
Daniel D. Gajski, Quoc-Viet Dang, WenLiang He
Henry Samueli School of Engineering, University of California, Irvine, California, USA; School of Education, University of California, Irvine, California, USA

03:00 - 03:20pm: BREAK
SESSION 5-EEE:  E-GOVERNMENT & ISSUES OF INTEREST TO GOVERNMENT, ELECTED OFFICIALS, AND RELEVANT AGENCIES
Co-Chairs: Prof. Henry Hexmoor, Southern Illinois University, Carbondale, Illinois, USA; Raymond Joseph, IIT Madras, India
July 23, 2013 (Tuesday); 03:20pm - 06:00pm
(LOCATION: Montecristo 2)

03:20 - 03:40pm: Personal Information Systems Usability and Contents Tailoring by Users
C. Detraux and D. L. Scapin
INRIA, Domaine de Voluceau, Le Chesnay Cedex, France

03:40 - 04:00pm: Information Quality Assessment for E-Government Systems
Mona Alkhattabi
Imam Mohammad Bin Saud University, Riyadh, Saudi Arabia

04:00 - 04:20pm: An E Governance Model Using Cloud Computing Technology For Developing Countries
Manoj Kumar, Manish Shukla, Sonali Agarwal, G. N. Pandey
IIIT Allahabad, India

04:20 - 04:40pm: A Statistical and Simulation Model for Environmental Sustainability
John Wang
Montclair State University, New Jersey, USA

04:40 - 05:00pm: On the Implementation of one Registration, one Vote in South African Elections
Bassey Isong and Ndwamato Netshipise
University of Venda, Thohoyandou, South Africa

05:00 - 05:20pm: Antecedents of E-trust: A study among taxpayers in Malaysia
Moein Mayeh, T. Ramayah, Sureswaran Ramadass
National Advanced IPv6 Center, Universiti Sains Malaysia, USM, Penang, Malaysia

05:20 - 05:40pm: A Simple Implementation of Distributed Vertical Search and Information Integration Technology
Jinshuo Liu, Wei Yang, Ming Cao, Yu Xiao, Hui Wu
Wuhan University, Wuhan, P. R. China; Hu Bei Institute of Standardization, Wuhan, P. R. China; China Ship Development and Design Center, P. R. China

05:40 - 06:00pm: A Smart Home for an Active and Independent Old Age in the Elderly
Polzonetti Alberto and Re Barbara
University of Camerino, Italy

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
ERSA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Engineering of Reconfigurable Systems and Algorithms

SESSION E: DEVELOPING RECONFIGURABLE HETEROGENEOUS SYSTEMS
Chair: TBA
July 23, 2013 (Tuesday); 08:00am - 08:40am
,LOCATION: Partagas 1)

08:00 - 08:20am: Heuristically Driven Task Agglomeration in Limited Resource Partially Reconfigurable Systems
David Austin and B. Earl Wells
Department of Electrical and Computer Engineering, University of Alabama in Huntsville, Alabama, USA

08:20 - 08:40am: An Automatic Design and Implementation Framework for Reconfigurable Logic IP Core
Qian Zhao, Motoki Amagasaki, Masahiro Iida, Morihiro Kuga, and Toshinori Sueyoshi
Graduate School of Science and Technology, Kumamoto University, Japan

SESSION F: DISCUSSION SESSION AND SHORT PAPERS: DEVELOPING RECONFIGURABLE HETEROGENEOUS SYSTEMS
Chair: TBA
July 23, 2013 (Tuesday); 08:40am - 10:20am
,LOCATION: Partagas 1)

08:40 - 09:00am: Types, Signatures, Interfaces, and Components in NOOP: The core of an adaptive run-time
Anders Andersen
University of Tromso, Norway

+ Heterogeneous Multicore Platform With Accelerator Templates and Its Implementation on an FPGA with Hard-core CPUs
Yasuhiro Takei, Hasitha Muthumala Waidyasooriya, Masanori Hariyama, and Michitaka Kameyama
Tohoku University, Japan

+ On-demand Fault Scrubbing Using Adaptive Modular Redundancy
Naveed Imran, Rizwan A. Ashraf, Ronald F. DeMara
University of Central Florida (UCF), Florida, USA

+ Reducing Floating-Point Error Based on Residue-Preservation and Its Evaluation on an FPGA
Hasitha Muthumala Waidyasooriya, Hirokazu Takahashi, Yasuhiro Takei, Masanori Hariyama, Michitaka Kameyama
Tohoku University, Japan

+ Accelerating Real-time LiDAR Data Processing Using GPUs
Vivek Venugopal and Suresh Kannan
United Technologies Research Center, USA

09:00 - 10:00am: DISCUSSION SESSION

10:00 - 10:20am: CLOSING REMARKS
Dr. Toomas P. Plaks, UK; ERSA Chair
,LOCATION: Partagas 1)
10:20 - 11:00am: POSTER/DISCUSSION SESSION  
July 23, 2013 (Tuesday)  
,LOCATION: Cohiba 8-9

11:00 - 05:00pm: During this period, ERSA attendees are encouraged to participate in sessions belonging to PDPTA'13, ESA'13, CDES'13, ICWN'13, and/or SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of ERSA'13.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS  
(Please see the lists at the beginning of this book)
FECS'13 CONFERENCE SCHEDULE

The 2013 International Conference on Frontiers in Education:
Computer Science and Computer Engineering

SESSION 2-FECS: DEGREE PROGRAMS, CURRICULUM, & COURSE DEVELOPMENT + RELATED ISSUES
Co-Chairs: Dr. Xiaoyuan (Sue) Suo, Department of Math & Computer Science, Webster University, USA
July 23, 2013 (Tuesday); 08:00am - 02:00pm
(LOCATION: Cohiba 4)

08:00 - 08:40am: INVITED LECTURE
WEDUCA: Web Enhanced Design of University Curricula
Elisabeth Bacon, George Hagel, Michael Charnine, Richard Foggie, Brian Kirk, Igor Schagaev, and George Kravtsov
Greenwich University, UK; Kempten University, Germany; Inst. of Informatics, Russian Academy of Sciences, Russia; ESP Central Ltd, UK; Robinsons Associates, UK; Thunder Arts Ltd, UK; London Metropolitan University, UK

08:40 - 09:00am: Requiring a Systems Analysis and Design Course for a Computer Science Major
David V. Beard, Kevin R. Parker, Thomas A. Ottaway, William F. Davey, and Corey D. Schou
Idaho State University, Pocatello, Idaho, USA; RMIT University, Melbourne, Australia

09:00 - 09:20am: Cloud Computing in the Curriculum: A Current Perspective
Kathy J. Liszka, Chien-Chung Chan, Michael L. Collard, Drew Guarnera, Nicholas Bordo
The University of Akron, Akron, Ohio, USA

09:20 - 09:40am: A Minor in Computational Statistics
Xiaohui Zhong and Kevin Daimi
University of Detroit Mercy, Michigan, USA

09:40 - 10:00am: A Writing Intensive, Oral Presentation, Ethics Course in Computer Science
Laurie J. Patterson
University of North Carolina Wilmington, North Carolina, USA

10:00 - 10:20am: A Curriculum Model for Solving the Need to Prepare More K-12 Computer Science Teachers
Cameron L. Fadjo, Ted Brown, Leigh Ann DeLyser
Columbia University, New York, USA;
The CUNY Institute for Software Design and Development, City University of New York (CUNY), New York, USA;
City University of New York (CUNY), New York University, USA

10:20 - 11:00am: POSTER/DISCUSSION SESSION A-FECS
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. Using an Insurance Company Database Example to Teach Database Design and Data Mining Principles
Chris Helwig and Julia Bao*
University of Phoenix, USA
O. ...
SESSION 2-FECS: Continued ... DEGREE PROGRAMS, CURRICULUM, & COURSE DEVELOPMENT + RELATED ISSUES
(LOCATION: Cohiba 4)

11:00 - 11:20am: Development of ICT Curricula Through Graduate Career Outcomes and Required Skills
Ian Lewis, Kristy de Salas, Nicole Herbert, Mike Cameron-Jones, Winyu Chinthammit, Julian Dermoudy, Leonie Ellis, Matthew Springer
University of Tasmania, Hobart, Tasmania

11:20 - 11:40am: Should College Algebra be a Corequisite for Computer Science 1?
Christine Reilly and Emmett Tomai
University of Texas - Pan American, Texas, USA

11:40 - 12:00pm: Design of Curriculum on Cloud Computing
Ram Krishnan and Eugene John
University of Texas at San Antonio, Texas, USA

12:00 - 12:20pm: FREE SLOT

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 2-FECS: Continued ... DEGREE PROGRAMS, CURRICULUM, & COURSE DEVELOPMENT + RELATED ISSUES
(LOCATION: Cohiba 4)

01:20 - 01:40pm: Teaching Mobile Computing Curriculum Design and Strategies Applied
Xiaoyuan Suo
Webster University, Saint Louis, MO, USA

01:40 - 02:00pm: Integrating Games Into The Computer Science Curriculum: From General Education To The Graduate Level
Robert Marmelstein and Eun-Joo Lee
East Stroudsburg University, Pennsylvania, USA

SESSION 3-FECS: TEACHING PROGRAMMING + SOFTWARE ENGINEERING & SYSTEM DEVELOPMENT + TESTING & DEBUGGING + ONLINE COURSES + CURRICULUM ISSUES
Co-Chairs: Prof. Colin Archibald, Valencia College, Florida, USA
Dr. Maddula Muralidhara Rao,
Jawaharlal Nehru Technological University India
July 23, 2013 (Tuesday); 02:00pm - 06:00pm
(LOCATION: Cohiba 4)

02:00 - 02:20pm: Software Development Educational Pathway AS=>BAS
Colin Archibald, Richard Grant, Craig Tidwell, Ali Orooji
Valencia College, Orlando, Florida, USA;
Seminole State College, Sanford, Florida, USA;
University of Central Florida, Florida, USA

02:20 - 02:40pm: Advanced Java Features for Using JUnit in CS1/CS2
Hans Dulimarta and Scott Grissom
Grand Valley State University, Michigan, USA

02:40 - 03:00pm: Fuzzy Logic Model for Predicting the Number of Online Courses Needed from Number of Students Enrolled in Higher Education
Rosa Leonor Ulloa-Cazarez and Cuauhtemoc Lopez-Martin
CUCEA, Universidad de Guadalajara, Jalisco, Mexico

03:00 - 03:20pm: BREAK
03:20 - 03:40pm: An Empirical Study on Remote Lectures Using Video Conferencing Systems
Tetsuya Oishi, Weiqiang Kong, Yasutaka Kamei, Norimichi Hiroshima, Naoyasu Utabashi, and Akira Fukuda
Kyushu University, Japan

03:40 - 04:00pm: Empirical Development of a Mobile Application: UVA-Wise Undergraduate Software Engineering Capstone Project
Ira Weissberger, Stephen Showalter, Travis Deel, Michael Ward, Matthew Whitt, and Abrar Qureshi
University of Virginia's College at Wise, Virginia, USA

04:00 - 04:20pm: Code Debugging Tool to Help Teach Mainframe Programming Languages
Claudio Goncalves Bernardo and Paulo Roberto Chineara Batuta
Universidade Paulista, Brazil;
Centro Universitario Araraquara, Brazil

04:20 - 04:40pm: Game Programming For High School Mathematics Education
Josh Archer, Robert Johnson, Nelson Rushton
Texas Tech University, Texas, USA

04:40 - 05:00pm: The Experience with After-School Teaching of Programming for Parents and Their Children
Rudolf Pecinovsky and Jiri Kofranek
University of Economics, Prague, Czech Republic;
Charles University in Prague, Laboratory of Biocybernetics, Prague, Czech Republic

05:00 - 05:20pm: Turtles, Robots, Sheep, Cats, Languages what is the next to teach programming - A Future Developer's Crisis
Universidad Autonoma de San Luis Potosi, Mexico;
Florida International University, Florida, USA

05:20 - 05:40pm: A Process for Updating Computer Science Curriculum for Non-Majors
Melis Oner, David Kaczynski, Roger Lee
Central Michigan University, Mount Pleasant, Michigan, USA

05:40 - 06:00pm: A Revolutionary Curriculum for Future Information Technology
Ramesh K. Karne, Patrick Appiah-kubi, Bharat Rawal
Towson University, Towson, Maryland, USA;
Shaw University, Raleigh, North Carolina, USA

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
ICAI'13 & GEM'13 CONFERENCE SCHEDULES

The 2013 International Conference on Artificial Intelligence (ICAI'13) + The 2013 International Conference on Genetic and Evolutionary Methods (GEM'13)

SESSION 3-ICAI: (CONCURRENT SESSION WITH SESSION 4-GEM)
NATURAL LANGUAGE PROCESSING AND RELATED METHODS
Co-Chairs: Dr. Nayat Sanchez-Pi, ADDLabs, Universidade Federal Fluminense, Brazil;
Dr. Steve Richfield, CTO of our thing, Washington, USA
July 23, 2013 (Tuesday); 08:00am - 10:20am
(LOCATION: Cohiba 7)

08:00 - 08:20am: A Knowledge-Based Approach to Word Sense Disambiguation
Waleed Faris and Kam-Hoi Cheng
University of Houston, Houston, Texas, USA

08:20 - 08:40am: Computer-based Method for Association Response in Autonomous Conversation
Eriko Yoshimura, Misako Imono, Seiji Tsuchiya, Hirokazu Watabe
Doshisha University, Japan

08:40 - 09:00am: Method to Add New Attributes to Concepts by Web and Second-order Attributes
Misako Imono, Eriko Yoshimura, Seiji Tsuchiya, Hirokazu Watabe
Doshisha University, Japan

09:00 - 09:20am: Development Of Filipino Phonetically-Balanced Words And Test Using Hidden Markov Model
Arnel C. Fajardo and Yoon-joong Kim
Hanbat National University, Daejon, South Korea

09:20 - 09:40am: How to Make NL "Understanding" Systems Run Orders of Magnitude Faster
Steve Richfield
CTO of our thing, Edgewood, Washington, USA

09:40 - 10:00am: Meaning Judgment Method for Alphabet Abbreviation Using Wikipedia and Earth Mover’s Distance
Seiji Tsuchiya, Misako Imono, Eriko Yoshimura, Hirokazu Watabe
Doshisha University, Japan

10:00 - 10:20am: Implementation of Intelligence Robotic Engines Using Ontologies and Process Natural Language
Rafael Luiz de Macedo, Elvis Fusco, Fabio Dacencio Pereira
University Center Euripides of Marilia, Brazil
SESSION 4-GEM:  (CONCURRENT SESSION WITH SESSION 3-ICAI)  
SWARM OPTIMIZATION ALGORITHMS AND APPLICATIONS +  
EVOLUTIONARY ALGORITHMS  
Co-Chairs: Dr. Rhyd Lewis, Cardiff School of Mathematics,  
Cardiff University, Wales, UK  
July 23, 2013 (Tuesday); 08:00am - 10:20am  
(LOCATION: Montecristo 2)

08:00 - 08:20am:  Adapting The Ant Colony Optimization Algorithm To The Printed Circuit  
Board Drilling Problem  
Taisir Eldos, Aws Kanan, Abdullah aljumah  
Salman in Abdulaziz University, Saudi Arabia

08:20 - 08:40am:  Harmonic Estimation in Radial Distribution Feeders Based on Particle  
Swarm Optimization  
Ricardo A. S. Fernandes, Ricardo A. L. Rabelo, Ivan N. Silva,  
and Mario Oleskovicz  
Federal University of Sao Carlos, Brazil;  
State University of Piaui, Brazil; University of Sao Paulo, Brazil

08:40 - 09:00am:  Solving the Traveling Salesman's Problem Using Reinforced Ant Colony  
Optimization Techniques  
N. N. Poddar and D. Kaur  
University of Toledo, Toledo, Ohio, USA

09:00 - 09:20am:  Emission Source Localization Using the Firefly Algorithm  
Darrin Hanna and Michael Lohrer  
Oakland University, Rochester, Michigan, USA

09:20 - 09:40am:  A Fast Parameter Setting Strategy for Particle Swarm Optimization and  
Its Application in Urban Water Distribution Network Optimal Design  
Xuewei Qi, Khaled Rasheed, Ke Li, Walter Potter  
University of Georgia, Athens, Georgia, USA

09:40 - 10:00am:  Evac: An Evolutionary Accompanist  
Shu Zhang, C. Thomas Bailey, Khaled Rasheed  
University of Georgia, Athens, Georgia, USA

10:00 - 10:20am:  Evolutionary Routing Strategies for Automotive Networks  
Martin Dohr and Bernd Eichberger  
Graz University of Technology, Graz, Austria

10:20 - 11:00am:  POSTER/DISCUSSION SESSION A-ICAI/GEM  
July 23, 2013 (Tuesday)  
(LOCATION: Cohiba 8-9)

O. Association Inference Processing to Extract Knowledge Sentences  
for Question Answering  
Hirokazu Watabe, Misako Imono, Eriko Yoshimura, Seiji Tsuchiya  
Doshisha University, Kyotanabe, Kyoto, Japan

O. A New Approach of Intelligent Control Voltage on the Low Side Voltage  
of Distribution Transformers Based on Electrical Equivalent Model ...  
Ernesto A. Mertens Jr., Rogerio A. Flauzino, Carlos H. da Silveira,  
Ivan N. da Silva, Renne T. M. Portal, Andre Bueno, Ricardo L. Becker,  
and Jose F. R. da Silva  
University of Sao Paulo, Brazil

O. Applying a Fuzzy System for Robust Fault Location in a Distribution  
System with Distributed Generation  
Oureste Elias Batista, Rogerio Andrade Flauzino, Lucas Assis de Moraes,  
and Marcel Ayres Araujo  
University of Sao Paulo, Brazil
SESSION 5-ICAI:  (CONCURRENT SESSION WITH SESSION 6-ICAI)
ARTIFICIAL INTELLIGENCE, ALGORITHMS, NOVEL APPLICATIONS & CONCEPTS
Co-Chairs: Dr. Curry Guinn, University of North Carolina Wilmington, USA; Ms. Mota-Valtierra Georgina, Universidad Autonoma de Queretaro, Mexico
July 23, 2013 (Tuesday); 11:00am - 06:00pm
(LOCATION: Cohiba 7)

11:00 - 11:20am: Crowd Evacuation Control for Public Spaces
Pejman Kamkarian and Henry Hexmoor
Southern Illinois University, Carbondale, Illinois, USA

Gerardo Rosas-Cholula, Juan Manuel Ramirez-Cortes, Jose Rangel-Magdaleno, Pilar Gomez-Gil, and Vicente Alarcon-Aquino
National Institute of Astrophysics, Optics and Electronics, Mexico; University of the Americas, Puebla, Mexico

11:40 - 12:00pm: A Personal Smart Assistant For Open Environments
Ali Hussain, Afshan Samani, Hamada H. Ghenniwa
Western University, London, Canada

12:00 - 12:20pm: Simultaneous Events Handling
Nathaniel Nana Kojo Taylor
Bowie State University, Bowie, USA

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Forgetting Classification and Measurement for Decomposition-based Reinforcement Learning
Sean Mondesire and R. Paul Wiegand
University of Central Florida, Orlando, Florida, USA

01:40 - 02:00pm: An Extraction of Influential Lightings for Illuminance Sensors and Lighting Off Mechanism in An Intelligent Lighting System
Mitsunori Miki, Yohei Azuma, Hisanori Ikegami
Doshisha University, Japan

02:00 - 02:20pm: Computational Methods for Determining the Similarity Between Ancient Greek Manuscripts
Eddie Dunn, Curry Guinn, George Zervos
University of North Carolina Wilmington, North Carolina, USA

02:20 - 02:40pm: Self-Adaptive Feature Selection Strategy for Multi-types Object Classification Problem
Namdar Mogharreban and Tianyang Wang
Southern Illinois University, Carbondale, Illinois, USA
02:40 - 03:00pm: Emotion Control of Induction Motor Using Disturbance Acceptance and Bacteria Foraging
Dong Hwa Kim
Hanbat National University, Korea

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Research on Bounded Nussbaum Gain Adaptive Method
Junwei Lei
Naval Aeronautical and Astronautical University, P. R. China

03:40 - 04:00pm: A Multiobjective Memetic Algorithm for Solving the Carsharing Problem
Laurent Moalic, Sid Lamrous, Alexandre Caminada
IRTES-SET, UTBM, Belfort cedex, France

04:00 - 04:20pm: Intelligent Sensorless Monitoring Dual System to Detect the Tool Condition in CNC Milling Machines
Mota-Valtierra Georgina, Franco-Gasca Luis-Alfonso, Aguirre- Becerra Humberto, and Ruiz-Vazquez Francisco
Universidad Autonomo de Queretaro, Mexico; Instituto Tecnologico de Celaya, Mexico

04:20 - 04:40pm: Specializing the Logic of Multiple-Valued Argumentation to the Jaina Seven-Valued Logic
Shogo Ohta, Hajime Sawamura, Takeshi Hagihara, Jacques Riche
Niigata University, Japan; Katholieke Universiteit Leuven, Belgium

04:40 - 05:00pm: A Behavioral Programming Approach to the Design-development of Humanoid Robots
Alan Rosen and David B. Rosen
Machine Consciousness Inc., Redondo Beach, California, USA

05:00 - 05:20pm: Generation Expansion Planning Base on Modified Shuffled Frog Leaping in Restructured Environment
Oveis Abedinia, Nima Amjady, Heidar Ali Shayanfar
Semnan University, Semnan, Iran;
Iran University of Science and Technology, Tehran, Iran

05:20 - 05:40pm: Distribution Planning with Renewable Energy Units Based on Modified Shuffled Frog Leaping Algorithm
H. A. Shayanfar, O. Abedinia, N. Amjady
Iran University of Science and Technology, Tehran, Iran;
Semnan University, Semnan, Iran

05:40 - 06:00pm: FREE SLOT

SESSION 6-ICAI: (CONCURRENT SESSION WITH SESSION 5-ICAI)
SWARM OPTIMIZATION ALGORITHMS AND APPLICATIONS
Co-Chairs: Dr. Akash, Singh, IBM Corporation, USA;
Dr. Narasimha Shashidhar,
Sam Houston State University, Texas, USA
July 23, 2013 (Tuesday); 11:00am - 01:40pm
(LOCATION: Montecristo 2)

11:00 - 11:20am: A Quantitative Approach For Ant-Based Clustering Performance
Savas Ozturk and Ahmet Emin Kuzucuoglu
Tubitak Bilgem, Turkey; Marmara University, Turkey

11:20 - 11:40am: Optimal Placement of Wind Turbines: Improved Honey Bee Mating Optimization
Heidar Ali Shayanfar, Oveis Abedinia, Nima Amjady, Akbar Tohidi
Islamic Azad University, South Tehran Branch, Tehran, Iran;
Semnan University, Semnan, Iran;
K. N. Toosi University of Technology, Tehran, Iran
11:40 - 12:00pm: Geometric Optimisation Using Karva for Graphical Processing Units
A. V. Husselmann and K. A. Hawick
Massey University, Auckland, New Zealand

12:00 - 12:20pm: HybridMiner: Effective Rule Mining Based on a Hybrid Dynamic Swarm Method
Veenu Mangat and Renu Vig
University Institute of Eng. & Technology, Panjab University, India

12:20 - 01:00pm: LUNCH (On Your Own)

01:00 - 01:20pm: Improved Multi-objective PSO for Semi-desirable Facility Location Problem
Bing Qi, Fangyang Shen, Heping Liu
Methodist University, USA; New York City College of Technology, USA; Auburn University, USA

01:20 - 01:40pm: A New Sequential VB-VB Approach for Economic Dispatch of Thermal Generation Units with Convex/Nonconvex Cost Characteristics
Azzam Ul Asar, Tahir Nadeem Malik, Intisar Ali Sajjad
CECOS University, Peshawar, Pakistan; University of Engineering & Technology, Taxila, Pakistan

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
ICOMP'13 + GCA'13 + SWWS'13 CONFERENCE SCHEDULES

The 2013 International Conference on Internet Computing and Big Data (ICOMP'13)
+ The 2013 International Conference on Grid & Cloud Computing and Applications (GCA'13)
+ The 2013 International Conference on Semantic Web and Web Services (SWWS'13)

SESSION 3-GCA: PARALLEL & DISTRIBUTED ALGORITHMS & APPLICATIONS + GRID & CLOUD COMPUTING
Co-Chairs: Dr. Narasimha Shashidhar, Sam Houston State Univ., Texas, USA; Dr. Tzong-An Su, Feng Chia University, Taiwan
July 23, 2013 (Tuesday); 08:00am - 10:20am (LOCATION: Partagas 2)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Adaptive Data Replication Scheme Based on Access Count Prediction in Hadoop
Jungha Lee, JongBeom Lim, Daeyong Jung, KwangSik Chung, JoonMin Gil, and Heonchang Yu
Korea University, Korea; Korea National Open University, Korea; Catholic University of Daegu, Korea

08:40 - 09:00am: Elastic Integration of a Dedicated Grid Site with an Opportunistic Cloud Infrastructure
Harold Castro, Nathalia Garces, Mario Villamizar
Universidad de los Andes, Bogota, Colombia

09:00 - 09:20am: BLASTer: A Hub-based Tool for Bioinformatics
Ben Cotton, Christopher Thompson, Brian Raub
Purdue University, West Lafayette, Indiana, USA

09:20 - 09:40am: An Efficient Method by Using Prediction to Reduce Times in Live Migration of Virtual Machine
Boseob Kim and Sungchun Kim
Sogang University, Seoul, South Korea

09:40 - 10:00am: Comparison Among Directions of Indexing over Hadoop
Ahmed Emam, Mostafa Gamal, Khawlalah Al-Hefdhi
Information System Dept., King Saud University, Saudi Arabia; Computer Science Department, McKendree University, USA

10:00 - 10:20am: A Fuzzy Predictable Load Balancing Approach in Cloud Computing
Fahimeh Ramezani, Jie Lu, Farookh Hussain
University of Technology, Sydney, Australia
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-ICOMP-GCA-SWWS
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. Modeling a Standard Health Claim Form as an RDF Store
   Pavani Akundi
   Cook Children's Health Care System, Southern Methodist
   University, Texas, USA
O. Research Roadmap: Big Data in Healthcare
   Joseph M. Woodside
   Stetson University, DeLand, Florida, USA
O. ...

SESSION 4-ICOMP: SEARCH + INTELLIGENT DATABASES + INFORMATION MANAGEMENT
Co-Chairs: Prof. Leonidas Deligiannidis,
   Wentworth Institute of Technology, Boston, MA, USA;
   Dr. Tzong-An Su, Feng Chia University, Taiwan;
   Dr. Nevine Makram Labib, The British University in Egypt, Egypt
July 23, 2013 (Tuesday); 11:00am - 12:20pm
(LOCATION: Partagas 2)

11:00 - 11:20am: Structured Synonym Knowledge Base Expansion by Mining from
   Unstructured Web Text
   Yangsheng Ji, Xiang Chen, Yiling Liu, Chong Gu, Shouling Cui,
   and Jianguo Jia
   CETC 28TH Institute, Nanjing, P. R. China; Nantong University,
   Nantong, P. R. China; Huawei Industrial Base, Bantian Longgang,
   Shenzhen, P. R. China

11:20 - 11:40am: Clinical Database Applications in Hospitals
   Mo Sun, Ye Lin, Roger Lee
   Central Michigan University, Michigan, USA

11:40 - 12:00pm: Infocommunication Systems of Saturated Traffic Control in
   Megalopolises
   Alexander P. Buslaev, Andrew V. Provorov, Marina V. Yashina
   Moscow State Automobile & Road Technical University, Russia;
   Moscow Technical University of Communications & Infor., Russia

12:00 - 12:20pm: Proposal on Divergent Web Search Engine with Mandal-Art
   Motoichi Adachi, Eigo Ito, Takayuki Fujimoto
   Toyo University, Kawagoe, Japan

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 5-ICOMP: CLOUD COMPUTING + WEB SERVICES + INTERNET COMPUTING & APPLICATIONS
   + BIG DATA
Co-Chairs: Nicola Restifo, Fondazione Politecnico - Innovazione
   Digitale, Milan, Italy;
   Prof. Marcel O. Odhiambo, Univ. of South Africa, South Africa
   Mehdi Bahrami, University of California, Merced, USA
July 23, 2013 (Tuesday); 01:20pm - 03:20pm
(LOCATION: Partagas 2)

01:20 - 01:40pm: Data De-Duplication in Storage Management
   Ramesh Dornala, K. Akingbehin, D. Yoon
   University of Michigan – Dearborn, Michigan, USA

01:40 - 02:00pm: A Secure Agent-based Single Sign-On Scheme Supporting Web
   Services Home Network Environments
   Woei-Jiunn Tsaur and Jia-Xin Wu
   Department of Information Management, Da-Yeh University, Taiwan
02:00 - 02:20pm: Web Services-based Managerial Mechanisms Consideration
Zheng Yang, Yan Fan, Xuanqi Zhao, Lan Lan, Li Zhang
Sichuan University, Chengdu, P. R. China

02:20 - 02:40pm: Apply Service Oriented Architecture and Web 2.0 Application in Web Services
Ming-Chang Huang
University of North Carolina - Charlotte, USA

02:40 - 03:00pm: A Mechanism to Prevent Side Channel Attacks in Cloud Computing Environments
Tzong-An Su
Feng Chia University, Taiwan

03:00 - 03:20pm: Storage Matters: Evaluating the Impact of Big Data Transfer Techniques on Storage Performance
Adam H. Villa
Providence College, Rhode Island, USA

03:20 - 03:40pm: BREAK

SESSION 6-SWWS: SEMANTIC WEB + ONTOLOGIES
Co-Chairs: Dr. Ah-Lian Kor, Leeds Metropolitan University, UK
July 23, 2013 (Tuesday); 03:40pm - 06:00pm
(LOCATION: Partagas 2)

03:40 - 04:00pm: A Semantic Dependency-graph-based Approach Combining Platforms Hosting Data and Applications
Sayoko Shimoyama, Robert Sidney Cox III, David Gifford, and Tetsuro Toyoda
Lab. for Data Integration, ACCC, Riken Institute, Wako, Japan

04:00 - 04:20pm: A Semantic Cloud for File System Annotation
Tyronda Strong and Pavani Akundi
Southern Methodist University, Cook Children's Health Care System, Dallas, Texas, USA

04:20 - 04:40pm: Constructing a Semantic-Based Image Retrieving System - Image Semantic Searching System (ISSS)
Yi Liu, Peiyi Xiao, Michael C. Wimberly
South Dakota State University, Brookings, South Dakota, USA

04:40 - 05:00pm: Personal Ontology-based Sentiment Analysis System for Mobile Devices
Sang-Min Park and Doo-Kwon Baik
Korea University, Seoul, Republic of Korea

05:00 - 05:20pm: University Ontology: Case Study of Ahlia University
Karim Hadjar
Ahlia University, Al Manama, Bahrain

05:20 - 05:40pm: Comparison Evaluation for SPARQL-to-SQL Translation Model
Hajung Sung, Suckhoon Lee, Doo-Kwon Baik
Korea University, Seoul, Republic of Korea

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 4-ESA: NOVEL SYSTEMS DESIGN & APPLICATIONS + POWER EFFICIENCY & MANAGEMENT

Co-Chairs: Prof. Scott C. Smith, Professor and Department Chair, ECE, North Dakota State University, Fargo, USA; Prof. Jing Zhang, University of Arkansas at Little Rock, USA; Dr. Ah-Lian Kor, Leeds Metropolitan University, UK;

July 23, 2013 (Tuesday); 08:00am - 10:20am
(LOCATION: Partagas 3)

08:00 - 08:20am: Telemedicine: Issues With A Mote-based Remote Patient Monitoring Wireless System Design
Patrick Otoo Bobbie and Erik Hadley
Southern Polytechnic State University, Marietta, Georgia, USA; Ghana Technology University College, Accra, Ghana

08:20 - 08:40am: Design And Implementation Of An Embedded Obstacle Detector For The Visually Impaired
Ihekweaba Chukwugoziem, Nwachukwu-Nwokeafor K.C, Ihekweaba Ogechi
Michael Okpara University of Agriculture, Abia State, Nigeria

08:40 - 09:00am: Livestock Management System
James Foulkes, Peter Tucker, Mariflor Caronan, Rebecca Curtis, Leslie G. Parker, Chris Farnell, Brett Sparkman, Guoqing Zhou, Scott C. Smith, and Jingxian Wu
Rose-Hulman Institute of Technology, Terre Haute, Indiana, USA; University of Arkansas, Fayetteville, Arkansas, USA; Northern Arizona University, Flagstaff, Arizona, USA; Missouri University of Science & Technology, Rolla, Missouri, USA

09:00 - 09:20am: An Emergency Medical Service in IPv6 Network Environment
Tseng-Yi Chen, Hsin-Wen Wei, Ying-Jie Chen, Wei-Kuan Shih
National Tsing Hua University, Hsinchu, Taiwan; Tamkang University, Taipei, Taiwan

09:20 - 09:40am: Design of a FPGA-based Virtual Bus Interface System for Reducing IOs in Hardware-in-the-Loop (HIL) Real-time Simulation
Kevin Strell, Donald Mackellar, Yong-Kyu Jung
Gannon University, Erie, PA, USA

09:40 - 10:00am: An Adaptive Real-Time FPGA-Based Speech Enhancement Processing System
Andres J. Cuevas-Romano, Victor H. Diaz-Ramirez, Andres Calvillo-Tellez
Instituto Politecnico Nacional - CITEDI, Mexico

10:00 - 10:20am: FPGA Implementation of a Compact Genetic Algorithm Using Cellular Automata Pseudo-Random Generator
Marco A. Moreno-Armendariz, Carlos A. Cruz-Villar, Victor H. Ponce-Ponce
CIC-IPN, CINVESTAV, Mexico
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-ICWN-ESA
July 23, 2013 (Tuesday)
,LOCATION: Cohiba 8-9

O. Development of Digital Signal Processing Module for Level Measurement Radar
Yeonghwan Ju, Sang-Dong Kim, Jonghun Lee
Advanced Radar Technology Laboratory, Robotics Research Division, Daegu Geonbuk Institute of Science & Technology, Daegu, Korea

O. Wireless Overlay Sensor Networks
Sumesh J. Philip
Western Illinois University, Macomb, Illinois, USA

O. Using a Zigbee Wireless Network for Greenhouse Control over the Internet
Yuriy Eero, Mohamed Osman, Scott Hudson
Washington State University, Washington, USA

O. Efficient Processing of Sensor Network Data Using Column-Oriented Databases
Kyung-Chang Kim and Choung-Seok Kim
Hongik University, Seoul, Korea; Silla University, Pusan, Korea

SESSION 5-ICWN: SENSOR NETWORKS
Co-Chairs: Prof. K. Ferens, University of Manitoba, Canada
Prof. Zhanyang Zhang, City University of New York, USA
July 23, 2013 (Tuesday); 11:00am - 12:20pm
,LOCATION: Partagas 3

11:00 - 11:20am: Security in Wireless Sensor Networks Using Coalition Games with Transferable Payoff
Mehran Asadi, Afrand Agah, Christopher Zimmerman
Center of Excellence in Business and Entrepreneurial Studies, Lincoln University, PA, USA; West Chester University, PA, USA

11:20 - 11:40am: Low Latency Transmissions of Prioritized Sensor Data Messages
Hiroaki Higaki
Tokyo Denki University, Tokyo, Japan

11:40 - 12:00pm: An Energy Efficient Hierarchical Clustering Protocol for Wireless Sensor Networks
Tong Duan, Ken Ferens, Witold Kinsner
University of Manitoba, Winnipeg, Manitoba, Canada

12:00 - 12:20pm: An Cluster Based Delay-Tolerant Protocol for Underwater Wireless Sensor Networks
Zhanyang Zhang
College of Staten Island, City University of New York, USA

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 6-ICWN: SENSOR NETWORKS + FSM MODEL
Co-Chairs: Prof. Hemal V. Shah, Ganpat University, India
July 23, 2013 (Tuesday); 01:20pm - 04:20pm
,LOCATION: Partagas 3

01:20 - 01:40pm: Novel Model for Vehicle’s Traffic Monitoring using Wireless Sensor Networks between Major Cities in South Africa
Mbodila Muniege and Obeten Ekabua
North-West University, Mmabatho, South Africa

01:40 - 02:00pm: Dynamic TDMA Sense Window Prediction for Wireless Sensor Networks
Charith Gunasekara and Ken Ferens
University of Manitoba, Winnipeg, MB, Canada
02:00 - 02:20pm: Study on the Livestock Activity Monitoring System Using Wireless Sensor Networks
Jeonghwan Hwang, Hyun Yoe
Sunchon National University, Suncheon, Republic of Korea

02:20 - 02:40pm: Design and Implementation of Livestock Farm Integrated Control System Based on Wireless Sensor Network
Hyungi Kim and Hyun Yoe
Sunchon National University, Suncheon, Republic of Korea

02:40 - 03:00pm: Design and Implementation of WSN based Estrus Detection System for SOW
Hoseok Jeong and Hyun Yoe
Sunchon National University, Suncheon, Republic of Korea

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Study on the RFID/WSN Based Livestock Disease Control System
Seokkyun Jeong and Hyun Yoe
Sunchon National University, Suncheon, Republic of Korea

03:40 - 04:00pm: Distributed Positioning and Tracking in Cluster-based Wireless Sensor Networks
Chin-Der Wann and Chih-Ying Lee
National Kaohsiung First University of Science & Technology, Taiwan;
Macronix International Co. Ltd., Taiwan

04:00 - 04:20pm: Development of Outage Tolerant FSM Model for Fading Channels
Anjana Jain, P. D. Vyavahare, L. D. Arya
Shri G. S. Institute of Technology and Science, Indore, M.P., India

SESSION 7-CDES: PROCESSOR & INTEGRATED CIRCUIT DESIGN + NOC + LOW POWER COMPUTING + TESTING
Co-Chairs: Professor Hussain Al-Asaad, University of California, Davis, California, USA;
Professor Igor Schagaev, London Metropolitan University, London, England
July 23, 2013 (Tuesday); 04:20pm - 06:00pm
(LOCATION: Partagas 3)

04:20 - 04:40pm: Allocation of NBTI Aging Sensors for Circuit Failure Prediction
Samir Mahaboob Khan Kagadkar and Hussain Al-Asaad
University of California, Davis, California, USA

04:40 - 05:00pm: Implementation of a Fast Fourier Transform Processor in NULL Convention Logic
Zhen Song and Scott C. Smith
University of Arkansas, Fayetteville, Arkansas, USA

05:00 - 05:20pm: Network-Based System for Face Recognition on Mobile Wireless Devices
Keita Imaizumi and Vasily G. Moshnyaga
Fukuoka University, Fukuoka, Japan

05:20 - 05:40pm: Redundancy + Reconfigurability = Recoverability
Simon Monkman and Igor Schagaev
ITACS Ltd, Stevenage, England;
London Metropolitan University, London, England

05:40 - 06:00pm: Simplifying Microblaze to Hermes NoC Communication Through Generic Wrapper
Andres Benavides, Byron Buitrago, Johnny Aguirre
University of Antioquia, Colombia

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS (Please see the lists at the beginning of this book)
SESSION 2-IPCV: SURVEILLANCE, SAFETY, SECURITY + IMAGE CODING, COMPRESSION, WAVELETS, WATERMARKING, AND RELATED METHODS
Co-Chairs: Dominik L. Michels, University of Bonn, Germany
July 23, 2013 (Tuesday); 08:00am - 10:20am
(LOCATION: Cohiba 6)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Smoke Detection in Video Surveillance Using Optical Flow and Green's Theorem
Melih Altun and Mehmet Celenk
Ohio University, Athens, Ohio, USA

08:40 - 09:00am: A Walkthrough System To Display Video Corresponding To The Viewer's Face Orientation
Toshiya Watanabe, Chao Liu, Susumu Shibusawa
Ibaraki University, Japan

09:00 - 09:20am: pGBbbShift: Method for Introducing Perceptual Criteria to Region of Interest Coding
Jaime Moreno, Christine Fernandez, Salvador Saucedo, Beatriz Jaime
National Polytechnic Institute of Mexico, Mexico City, Mexico; University of Poitiers, Poitiers, France

09:20 - 09:40am: Medical Image Compression Using Quad-tree Fractals and Segmentation
Fatemeh Khalili and Mehmet Celenk
Ohio University, Athens, Ohio, USA

09:40 - 10:00am: A Robust Color Image Watermarking Using Maximum Wavelet-Tree Difference Scheme
Chung-Yen Su and Yen-Lin Chen
National Taiwan Normal University, Taipei, Taiwan, ROC

10:00 - 10:20am: Informed Coded Modulation and Host Rejection Techniques for Color Inkjet Hardcopy Watermarking in the Spatial Domain
Joceli Mayer and Steven J. Simske
LPDS - EEL - Federal University of Santa Catarina - UFSC - Brazil; HP Print Production Automation Lab - Hewlett-Packard Labs, USA

10:20 - 11:00am: POSTER/DISCUSSION SESSION A-IPCV
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

0. Efficient Motion Vector Composition for H.264/AVC to SVC Video Transcoding
Yung-Hsiang Tang, Gwo-Long Li, Mei-Juan Chen
National Dong Hwa University, Taiwan, ROC; Industrial Technology Research Institute, Taiwan, ROC

0. An Overview Of The Application Of Machine Vision in Soccer Robots
Alina Trifan, Antonio J. R. Neves, Bernardo Cunha
Institute of Electronics and Telecommunications Engineering of University of Aveiro (IEETA-UA), Aveiro, Portugal
O. Automated Coronary Artery Segmentation and Calcified/non-Calcified Plaque Measurement
Pei-Kai Hung, Chun-You Liu, Chia-Yun Hsu, Chao-Yu Huang,
Wen-Jeng Lee, Tzung-Dau Wang, Chung-Ming Chen
National Taiwan University, Taipei, Taiwan;
National Taiwan University Hospital, Taipei, Taiwan

O. PET Image Analysis Using Parametric Response Map for Mild Cognitive Impairment
Seung Hak Lee, Jong Hun Kim, Seong Jin Son, Hyunjin Park
School of EEE, Sungkyunkwan University, Korea

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SESSION 3-IPCV: MEDICAL APPLICATIONS
Co-Chairs: Dr. Xiaohong (Sharon) Gao, Middlesex University, London, UK
July 23, 2013 (Tuesday); 11:00am - 12:20pm
(LOCATION: Cohiba 6)

11:00 - 11:20am: Automatic Ischemic Stroke Lesion Segmentation Using Single MR Modality and Gravitational Histogram Optimization Based Brain Segmentation
Nooshin Nabizadeh, Miroslav Kubat, Nigel John, Clinton Wright
University Of Miami, Coral Gables, Florida, USA

11:20 - 11:40am: Image Enhancement for Detection of Diagnostic Signs in Mammograms using Bi-Orthogonal Wavelets
Amutha S, Ramesh Babu D.R, Ravi Shankar M, Radha Krishna A,
Mamatha R, Vidhya Suman S
Dayananda Sagar College of Engineering, Bangalore, India

11:40 - 12:00pm: Semi-Supervised Multi-Phase Image Segmentation and Application to Deep-Gray-Matter Segmentation in MRI Brain Images
Fuhua Chen and Hongyuan Wang
West Liberty University, West Virginia, USA; CCZU, P. R. China

12:00 - 12:20pm: Cardiac Motion Reconstruction Using LKT Algorithm from 2D and 3D Echocardiography
Alice Gao, Wei Li, Chiang Lin, Martin Loomes, Xiaohong Gao
Barts and The London School of Medicine and Dentistry, Queen Mary,
University of London, London, UK;
School of Science and Technology, Middlesex University, London, UK

12:20 - 01:00pm: LUNCH (On Your Own)

SESSION 4-IPCV: NOVEL IMAGING APPLICATIONS AND ALGORITHMS
Co-Chairs: Dr. Xiaohong (Sharon) Gao, Middlesex University, London, UK
Dr. Sae Kwang Hwang, University of Illinois at Springfield, Springfield, Illinois, USA
July 23, 2013 (Tuesday); 01:00pm - 06:00pm
(LOCATION: Cohiba 6)

01:00 - 01:20pm: A Robust and Adaptive Image Inpainting Algorithm Based on a Novel Structure Sparsity
Zhidan Li, Hongjie He, Zhongke Yin, Fan Chen
Sichuan Key Laboratory of Signal and Information Processing,
Southwest Jiaotong University, Chengdu, Sichuan, P. R. China

01:20 - 01:40pm: Automated Industrial Inspection of Touch Panels Using Computer Vision
Hong-Dar Lin and Huan-Hua Tsai
Chaoyang University of Technology, Taiwan

01:40 - 02:00pm: On Feature Extraction for Fingerprinting Grapevine Leaves
Dominik L. Michels, Sven A. Giesselbach, Thomas Werner, Volker Steinhage
University of Bonn, Germany
02:00 - 02:20pm: Computer Vision-Based Object Recognition For The Visually Impaired Using Visual Tags
Rabia Jafri, Syed Abid Ali, and Hamid R. Arabnia
King Saud University, Riyadh, Saudi Arabia; ISM-TEC LLC, Wilmington, Delaware, USA; University of Georgia, USA

02:20 - 02:40pm: Object-level Saliency Detection Combining the Contrast and Spatial Compactness Hypothesis
Chi Zhang and Wei Qiang Wang
University of Chinese Academy of Sciences, Beijing, P. R. China; Key Lab of Intelligence Information Processing, Institute of Computing Technology, Chinese Academy of Sciences, P. R. China

02:40 - 03:00pm: Vision-Based Localization and Text Chunking of Nutrition Fact Tables on Android Smartphones
V. Kulyukin, A. Kutiyanawala, T. Zaman, S. Clyde
Utah State University, Logan, Utah, USA; MDSC Corporation, Salt Lake City, Utah, USA

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Facial Expression Recognition Based on Significant Face Components Using Steerable Pyramid Transform
Aysegul Ucar
Department Mechatronics Engineering, Firat University, Turkey

03:40 - 04:00pm: Segmentation of Online Handwritten Word by Estimating the Busy Zone of the Image
Rajib Ghosh
National Institute of Technology Patna, India

04:00 - 04:20pm: An Approach to Classifying Four-Part Music
Gregory Doerfler and Robert Beck
Villanova University, Villanova, PA, USA

04:20 - 04:40pm: Adaptive Smoothing and Wavelet Denoising for an Enhanced Speech Recognition System
Sonia Sunny, David Peter S, K Poulose Jacob
Cochin University of Science & Technology, Kochi, Kerala, India

04:40 - 05:00pm: Image Segmentation Using the MCV Image Labeling Algorithm
John Mashford
Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia

05:00 - 05:20pm: Depth Based Dual Component Dynamic Gesture Recognition
Helman Stern, Kiril Smilansky, Sigal Berman
Department of Industrial Engineering and Management, Deutsche Telekom Labs at BGU, Israel; Ben-Gurion University of the Negev, Beer-Sheva, Israel

05:20 - 05:40pm: Scale-Accurate 3D Vehicle Point Cloud Extraction from Single-Camera Traffic Video
Jedrzej Kowalcuzk, Eric T. Psota, Lance C. Perez
University of Nebraska-Lincoln, Lincoln, Nebraska, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 2-PDPTA: DATA-DRIVEN NETWORKING SYSTEMS WITH HIGH TOLERANCE FOR DISASTER, FAULT AND CONGESTION
Chair: Prof. Hiroaki Nishikawa, University of Tsukuba, Ibaraki, Japan
July 23, 2013 (Tuesday); 08:00am - 10:20am
(LOCATION: Cohiba 10)

08:00 - 08:20am: Effective Flooding over Disaster Tolerant Ad Hoc Network based on Exchange of Neighbor Information
Naoya Imaizumi, Keisuke Utsu, Hiroshi Sano, Hiroshi Ishii
School of Information and Telecommunication Engineering, Tokai University, Tokyo, Japan

08:20 - 08:40am: Video Streaming Performance of Load and Battery Charge Oriented Flooding over Disaster Tolerant Ad Hoc Network
Keisuke Utsu, Hiroaki Nishikawa, Hiroshi Ishii
School of Information and Telecommunication Engineering, Tokai University, Tokyo, Japan

08:40 - 09:00am: A Proposal on Broadcast based Information Sharing System over Disaster and Congestion Tolerant Ad Hoc Network
Keisuke Utsu, Hiroaki Nishikawa, Hiroshi Ishii
School of Information and Telecommunication Engineering, Tokai University, Tokyo, Japan

09:00 - 09:20am: An Overload-Free Data-Driven Ultra-Low-Power Networking Platform Architecture
Shuji Sannomiya, Yukikuni Nishida, Makoto Iwata, Hiroaki Nishikawa
Graduate School of Systems and Information Engineering, University of Tsukuba, Ibaraki, Japan

09:20 - 09:40am: An Implementation of Platform Simulator for Congestion-Free Ultra-Low-Power Data-Driven Networking System
Kazuhiro Aoki, Shuji Sannomiya, Makoto Iwata, Hiroshi Ishii, and Hiroaki Nishikawa
Information Infrastructure Laboratory, Inc., Tsukuba Science City, Ibaraki, Japan

09:40 - 10:00am: Low-Powered Self-Timed Pipeline with Variable-Grain Power Gating and Suspend-Free Voltage Scaling
Kei Miyagi, Shuji Sannomiya, Makoto Iwata, Hiroaki Nishikawa
Graduate School of Engineering, Kochi University of Technology, Tosayamada-cho, Kochi, Japan

10:00 - 10:20am: Self-Timed Single Circular Pipeline for Multiple FFTs
Ryuichi Taguchi, Hajime Ohiso, Keizo Mendori, Kei Miyagi, and Makoto Iwata
Graduate School of Engineering, Kochi University of Technology, Tosayamada-cho, Kochi, Japan
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-PDPTA  
July 23, 2013 (Tuesday)  
,LOCATION: Cohiba 8–9)

O. Perfect Difference Networks and Graphs and Their Applications  
Mikhail Rakov and John R. Mackall  
Mackall and Rakov, Santa Barbara, California, USA  

O. Parallelization of Initial Thread-level Work in Depth-First-Search  
Tree-Search on GPUs  
Mark Fienup  
University of Northern Iowa, Cedar Falls, Iowa, USA  

O. Runtime Performance Evaluation of GPU and CPU using a Genetic  
Algorithm Based on Neighborhood Model  
Vincent W. A. Tadaiesky, Adamo L. de Santana, Lilian de J. C. Dias,  
Ivan de I. de Oliveira, Fabio M. F. Lobato  
Federal University of Para (UFPA), Brazil  

O. ...

SESSION 3-PDPTA: HETEROGENEOUS COMPUTING; RESOURCE ALLOCATION, LOAD-BALANCING,  
DISTRIBUTED COMPUTING, GRID  
Co-Chairs: Prof. Aleardo Manacero, Paulista State University, Brazil  
Prof. K. Subramani, West Virginia University, USA  
July 23, 2013 (Tuesday); 11:00am - 12:40pm  
,LOCATION: Cohiba 10)

11:00 - 11:20am: A Machine-by-Machine Analysis of a Bi-Objective Resource  
Allocation Problem  
Ryan Friese, Tyler Brinks, Curt Oliver, Anthony A. Maciejewski,  
Howard Jay Siegel, Sudeep Pasricha  
Colorado State Unversity, Fort Collins, Colorado, USA  

11:20 - 11:40am: A Load Balancing Schema for Agent-based SPMD Applications  
Claudio Marquez, Eduardo Cesar, Joan Sorribes  
Universitat Autonoma de Barcelona, Spain  

11:40 - 12:00pm: Globus XIO Compression Driver: Enabling On-the-fly Compression  
in GridFTP  
Mattias Lidman, John Bresnahan, Raj Kettimuthu  
Argonne National Laboratory, Argonne, Illinois, USA;  
University of Chicago, Chicago, Illinois, USA;  
Redhat Inc.  

12:00 - 12:20pm: Two-Phase Atomic Commitment Protocol in Asynchronous Distributed  
Systems with Crash Failure  
Young-Whan Cho, Sung-Hoon Park, Seon-Hyong Lee  
Chungbuk National University, Chungbuk, Korea  

12:20 - 12:40pm: A Fault-Tolerance Approach to Distributed Applications  
Toan Nguyen and Jean-Antoine Desideri  
INRIA, France  

12:40 - 01:40pm: LUNCH (On Your Own)
SESSION 4-PDPTA:  (CONCURRENT SESSION WITH SESSION 5-PDPTA)
TOPICS IN PARALLEL AND DISTRIBUTED PROCESSING
Co-Chairs: Prof. Leonidas Deligiannidis,
Wentworth Institute of Technology, Boston, MA, USA
July 23, 2013 (Tuesday); 01:40pm - 06:00pm
(LOCATION: Cohiba 10)

01:40 - 02:00pm: Towards an Operating System Based Framework for Energy Efficient Scheduling of Parallel Workloads
Shwetha Shankar, Dan Tamir, Apan Qasem
Texas State University, San Marcos, Texas, USA

02:00 - 02:20pm: A Massively Parallel Line Simplification Algorithm Implemented Using Chapel
Michael Scherger and Huy Tran
Texas Christian University, Texas, USA;
Texas A&M University - Corpus Christi, Texas, USA; Exxon, USA

02:20 - 02:40pm: A Visualization System and Monitoring Tool to Measure Concurrency in MPICH Programs
Michael Scherger and Zakir Syed
Texas Christian University, USA;
Texas A&M University - Corpus Christi, Texas, USA

02:40 - 03:00pm: Configuration challenges when migrating applications to a cloud: the JEE use case
Alain Tchana, Noel De Palma, Xavier Etchevers, Daniel Hagimont
University Joseph Fourier, LIG Laboratory, Grenoble, France;
Orange Labs, Grenoble, France;
Toulouse University, IRIT Laboratory, Toulouse, France

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Design and Implementation of an In-Network Cache Coherence Protocol
Christian Bernard, Huy-Nam Nguyen, Eric Guthmüller, Ivan Miro-Panades
CEA/Leti/DCIS/SCME, Grenoble, France;
Bull S.A.S. - IP/SDD/MSV, France

03:40 - 04:00pm: Real-Time Radio Wave Propagation for Mobile Ad-Hoc Network Emulation Using GPGPUs
Brian J. Henz, David Richie, Evens Jean, Song Jun Park, James A. Ross, and Dale R. Shires
U.S. Army Research Laboratory, APG, Maryland, USA;
Brown Deer Technology, Forest Hill, Maryland, USA;
Secure Mission Solutions, APG, Maryland, USA;
Dynamics Research Corporation, Reston, Virginia, USA

04:00 - 04:20pm: Workstation Footprint Tactical Computing
Song Park, Dale Shires, James Ross, David Richie, Jordan Ruloff, and Brian Henz
U.S. Army Research Laboratory, Maryland, USA;
Dynamics Research Corp., Maryland, USA;
Brown Deer Technology, Maryland, USA

04:20 - 04:40pm: Stochastic Assessment of Voltage Sags by Applying a Parallelized Method
Carlos Ceja-Espinosa, Antonio Ramos-Paz, Elisa Espinosa-Juarez
Universidad Michoacana de San Nicolas de Hidalgo, Mexico

04:40 - 05:00pm: Large scale 3D Shape Retrieval by Exploiting Multi-core and GPU
El Wardani Dadi and El Mostafa Daoudi
University of Mohammed First, Faculty of Sciences, LaRi Laboratory, Oujda, Morocco
05:00 - 05:20pm: From Sequence of Tumor Liberated Protein (TLP) to Function and Potential Targets for Diagnosis and Therapy
Giulio Tarro
Sbarro institute for Cancer Research and Molecular Medicine, Temple University, Philadelphia, PA, USA; World Academy of Biomedical Technologies, UNESCO, Paris, France

05:20 - 05:40pm: Lighting Control Algorithm Using Linear Programming for An Intelligent Lighting System and Dealing with Disturbance Using Kalman Filter
Miki Mitsunori, Ikegami Hisanori, Azuma Yohei, Sakakibara Yuki, and Motoya Yo
Doshisha University, Kyoto, Japan

05:40 - 06:00pm: FREE SLOT

SESSION 5-PDPTA: (CONCURRENT SESSION WITH SESSION 4-PDPTA)
CLUSTER COMPUTING + MULTI-CORE, GPU, FPGA PROCESSING & APPLICATIONS
Co-Chairs: Prof. Hyo Jong Lee, Chonbuk National University, South Korea
July 23, 2013 (Tuesday); 01:40pm - 06:00pm
(LOCATION: Partagas 1)

01:40 - 02:00pm: Data-flow Concurrency on Distributed Multi-core Systems
George Michael, Samer Arandi, Paraskevas Evripidou
Department of Computer Science, University of Cyprus, Nicosia, Cyprus

02:00 - 02:20pm: A High Extensible Framework for Molecule Dynamic Simulation on GPUs
Xiao Zhang, Wenxiong Feng, Xiao Qin
Northwestern Polytechnical University, P. R. China; Auburn University, Alabama, USA

02:20 - 02:40pm: Adding Semi-coordinated Checkpoint to RADIC in Multicore Clusters
Marcela Castro, Dolores Rexachs, Emilio Luque
Universidad Autonoma de Barcelona, Spain

02:40 - 03:00pm: Comparative Study of High Performance Computing Using Multi-core Parallel Systems
Hyo Jong Lee and Hyeon Kyu Kim
Chonbuk National University, Jeonju, South Korea

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: A Numerical Modeling MATLAB Approach to Memory Behavior on a Multi-core Architecture on a Beowulf Cluster Single-Node
Damian Valles
Montana Tech of the University of Montana, Butte, Montana, USA

03:40 - 04:00pm: Applying the Parallel GPU Model to Radiation Therapy Treatment
J. Steven Kirtzic, David Allen, Ovidiu Daescu
University of Texas at Dallas, Texas, USA

04:00 - 04:20pm: A Benchmark-Driven Modelling Approach For Evaluating Deployment Choices On A Multi-Core Architecture
Annette Osprey, Graham Riley, Bryan Lawrence
NCAS Computational Modelling Services, Department of Meteorology, University of Reading, UK; School of Computing Science, University of Manchester, UK

04:20 - 04:40pm: Job Parallelism Using Graphical Processing Unit Individual Multi-processors and Localised Memory
D. P. Playne and K. A. Hawick
Massey University, Auckland, New Zealand
04:40 - 05:00pm: Performance Evaluation of Two-Dimensional Distributed Factoring Self-Scheduling Scheme for Heterogeneous Computer Systems
Satish Penmatsa and Abel Oji
University of Maryland Eastern Shore, Maryland, USA

05:00 - 05:20pm: Virtual Processor Frequency Emulation
Christine Mayap and Daniel Hagimont
Institut National Polytechnique de Toulouse, France

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 4-SAM: CRYPTOGRAPHIC TECHNOLOGIES I
Chair: Dr. Levent Ertaul, California State University, USA
East Bay, USA
July 23, 2013 (Tuesday); 08:00am - 10:20pm
(LOCATION: Cohiba 11)

08:00 - 08:20am: Towards An Efficient Protocol for Privacy and Authentication in Wireless Networks
Clifton Mulkey, Dulal Kar, Ajay Katangur
Texas A&M University-Corpus Christi, Texas, USA

08:20 - 08:40am: A Robust User Authentication Scheme for Multi-Server Environment Using Smart Cards
Tien-Ho Chen, Hsiu-lien Yeh, Tseng-Yi Chen, Wei-Kuan Shih
National Tsing Hua University, Hsinchu, Taiwan

08:40 - 09:00am: Secure Wireless Fax Module
Shakeel Durrani, Rida Amee, Imran Jattala, Nassar Ikram
Horizon Tech Services Islamabad, Pakistan

09:00 - 09:20am: Elliptic Curve Cryptography Coprocessor for Mobile Ad-Hoc Networks
Micho Radovnikovich and Debatosh Debnath
Department of Electrical and Computer Engineering,
Oakland University, Rochester, Michigan, USA

09:20 - 09:40am: Investigation of System Performance of Quantum Cryptography Key Distribution in Network Security
Mehrdad S. Sharbaf
CSUDH, Computer Science Department, Carson, California, USA

09:40 - 10:00am: Securing RTP Packets Using Persistent Packet Key Encryption Scheme For Real-Time Multimedia Applications
Younchan Jung and Enrique Festijo
School of Information, Communications & Electronics Engineering,
Catholic University of Korea, Gyeonggi-do, Korea

10:00 - 10:20am: Using Secure Multi-Party Computation When Processing Distributed Health Data
Anders Andersen
University of Tromso, Tromso, Norway

10:20 - 11:00am: POSTER/DISCUSSION SESSION A-SAM
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. Integrative Security for Java EE Web Applications
Thorsten Kischer and Helge Hemmer
Management and Engineering, AHT Group AG, Essen, Germany

O. HPA Lab: An Open-Source Educational Tool to Explore Host Protected Areas Under Linux
L. Markowsky
University of Maine, Orono, Maine, USA

O. Design and Implementation of Broker System for Protect Privacy Information
Sung-Jun Kim and Joon Woo
KISTI, Korea
SESSION 5-SAM: SYSTEMS ENGINEERING AND SECURITY + COMPUTER SECURITY + NETWORK SECURITY
Chair: Dr. Michael R. Grimaila, Air Force Institute of Technology, USA
July 23, 2013 (Tuesday); 11:00am - 12:20pm
(LOCATION: Cohiba 11)

11:00 - 11:20am: New Quasigroup Based Random Number Generator
Matthew Battey, Abhishek Parakh, William Mahoney
University of Nebraska at Omaha, Omaha, Nebraska, USA

11:20 - 11:40am: A Systems Engineering Approach for Assured Cyber Systems
Logan Mailloux, Brent Langhals, Michael Grimaila
Air Force Institute of Technology, AFIT/ENV, WPAFB, Ohio, USA

11:40 - 12:00pm: A Load Service Structure Using a P2P Network Based Reputation System in Ad-hoc Networks
Ming-Chang Huang
University of North Carolina at Charlotte, North Carolina, USA

12:00 - 12:20pm: FREE SLOT

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 6-SAM: COMPUTER SECURITY II
Dr. Rita Barrios, University of Detroit Mercy, USA
July 23, 2013 (Tuesday); 01:20am - 03:00pm
(LOCATION: Cohiba 11)

01:20 - 01:40pm: FREE SLOT

01:40 - 02:00pm: Correlation Analysis of Cyber Threat Information in Heterogeneous Security Systems
Jae-Kook Lee and Chae-Tae Im
Applied Security Technology Team, Korea Internet and Security Agency, Seoul, Korea

02:00 - 02:20pm: Towards a Service Migration Architecture for Service Availability
Yanjun Zuo
University of North Dakota, Grand Forks, North Dakota, USA

02:20 - 02:40pm: FAPA: A Model to Prevent Flooding Attacks in Clouds
Kazi Zunnurhain and Susan V. Vrbsky
The University of Alabama Tuscaloosa, Alabama, USA

02:40 - 03:00pm: Detecting the Insider Threat: Going Beyond the Network Layer
Rita M. Barrios
Computer Information Systems - Cyber Security, University of Detroit Mercy, Detroit, Michigan, USA

03:00 - 03:20pm: BREAK

SESSION 7-SAM: CRYPTOGRAPHIC TECHNOLOGIES II
Chair: Dr. Cristina Soviany, IDES Technologies, Belgium
July 23, 2013 (Tuesday); 03:20pm - 05:40pm
(LOCATION: Cohiba 11)

03:20 - 03:40pm: FREE SLOT
03:40 - 04:00pm: Implementing the ECC Brainpool Curve Generation Procedure Using Open Source Software
V. Gayoso Martinez and L. Hernandez Encinas
Information Security Institute, Spanish National Research Council (CSIC), Serrano, Madrid, Spain

04:00 - 04:20pm: Power and Electromagnetic Analysis Attack on a Smart Card Implementation of CLEFIA
Yongdae Kim, Jaehwan Ahn, Heebong Choi
The Attached Institute of Electronics and Telecommunications, Research Institute, Daejeon, Korea

04:20 - 04:40pm: Prime Base, Prime Moduli PRN Generator
Palak Thakkar, Scott Imhoff, John Harms
Raytheon Company, Intelligence and Information Systems, Colorado, USA

04:40 - 05:00pm: Cryptographic Technologies Track: Verifiable Symmetric Searchable Encryption for Multiple Groups of Users
Zachary A. Kissel and Jie Wang
University of Massachusetts Lowell, Massachusetts, USA

05:00 - 05:20pm: Verifiable Dynamic Multi-Secret Sharing Scheme
Aditya Nalwaya, P. D. Vyavahare, Manish Panchal
Department of Electronics and Telecommunication Engineering, S.G.S. Institute Of Technology and Science, Indore, India

05:20 - 05:40pm: Advanced Data Encryption Standard: Overcoming Deficiencies of DES
Chadi Riman and Hicham H. Hallal
Fahad Bin Sultan University Tabuk, Saudi Arabia

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
<table>
<thead>
<tr>
<th>SESSION 3-FCS: Session 3-FCS: QUANTUM COMPUTING + ENCRYPTION + CALCULUS + TESTING METHODS AND NEW METHODOLOGIES</th>
<th>Co-Chairs: Dr. Asoke Nath, St. Xavier's College (Autonomous), India</th>
<th>July 23, 2013 (Tuesday); 08:00am - 09:40am</th>
<th>(LOCATION: Montecristo 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 - 08:20am</td>
<td>Automated Test Case Generation and Execution Based on Record-Replay Mechanism</td>
<td>Jinyoung Kim, Hyunmin Yoon, Minsoo Ryu</td>
<td>Hanyang University, Seoul, Korea</td>
</tr>
<tr>
<td>08:20 - 08:40am</td>
<td>Bit Level Encryption Standard (BLES): Version-III</td>
<td>Gaurav Bhadra, Tanya Bala, Samik Banik, Joyshree Nath, Asoke Nath</td>
<td>St. Xavier's College (Autonomous), Kolkata, India; Jogesh Chandra Chaudhuri College, Kolkata, India</td>
</tr>
<tr>
<td>08:40 - 09:00am</td>
<td>Equivalence of the Foulis-Holland Theorems and the Orthomodular Law in Quantum Logic: Part 1</td>
<td>Jack K. Horner</td>
<td>Los Alamos, New Mexico, USA</td>
</tr>
<tr>
<td>09:00 - 09:20am</td>
<td>Advanced Symmetric Key Cryptosystem Using Bit and Byte Level Encryption Methods with Feedback</td>
<td>Prabal Banerjee and Asoke Nath</td>
<td>St. Xavier's College (Autonomous), Kolkata, India</td>
</tr>
<tr>
<td>09:20 - 09:40am</td>
<td>Modern Encryption Standard (MES): Version III</td>
<td>Rahul Deep Sircar, Gunjan Sekhon, Asoke Nath</td>
<td>St. Xavier's College (Autonomous), Kolkata, India</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>SESSION 4-SERP: Session 4-SERP: NOVEL APPLICATIONS, METHODOLOGIES &amp; CASE STUDIES + INTELLECTUAL PROPERTY ISSUES + EDUCATION</th>
<th>Co-Chairs: Elena Peterson, Computational Sciences and Mathematics Division, Pacific Northwest National Laboratory, USA</th>
<th>July 23, 2013 (Tuesday); 09:40am - 12:20pm</th>
<th>(LOCATION: Montecristo 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:40 - 10:00am</td>
<td>Semantic Obfuscation and Software Intention</td>
<td>Sheryl Duggins, Frank Tsui, Orlando Karam, Zoltan Kubanyi</td>
<td>Southern Polytechnic State University, Marietta, Georgia, USA</td>
</tr>
<tr>
<td>10:00 - 10:20am</td>
<td>Simulation Software Generation Using a Domain-Specific Language for Partial Differential Field Equations</td>
<td>K. A. Hawick and D. P. Playne</td>
<td>Massey University, Auckland, New Zealand</td>
</tr>
</tbody>
</table>
10:20 - 11:00am: POSTER/DISCUSSION SESSION A-SERP-FCS
July 23, 2013 (Tuesday)
(LOCATION: Cohiba 8-9)

O. Proposal of Camera Apps which Taking Person's Super Deform Picture Become Reality
   Hideaki Hashimoto and Takayuki Fujimoto
   Toyo University, Saitama, Japan
O. An Organizational Model for the Implementation of CMMi: An Automated Capability Evaluation Technique
   Abdulhameed A. Alelaiwi
   King Saud University, Riyadh, Saudi Arabia
O. An Effective Method to Test Sensor Applications
   Hwan-Cheol Joeng and Jang-Wu Jo
   Dong-A University, Busan, Korea
O. ...

SESSION 4-SERP: Continued ...
NOVEL APPLICATIONS, METHODOLOGIES & CASE STUDIES + INTELLECTUAL PROPERTY ISSUES + EDUCATION
(LOCATION: Montecristo 1)

11:00 - 11:20am: A Component-Based Architecture for Ginga
   Marcio Ferreira Moreno, Luiz Fernando Comes Soares, Renato Cerqueira
   Departamento de Informatica - PUC-Rio, Brazil

   Chao Zhao, Mike Estep, Kenneth D. Smith
   Cameron University, Oklahoma, USA

11:40 - 12:00pm: Why to Research in Knowledge Management in Software Engineering Processes?
   Ernesto Galvis-Lista and Marcela Sanchez-Torres
   Universidad del Magdalena, Facultad de Ingenieria, Colombia;
   Universidad Nacional de Colombia, Facultad de Ingenieria, Colombia

12:00 - 12:20pm: Novel Visual and Analytical Methods in Repurposing Legacy Scientific Code - A Case Study
   Elena Peterson, Darren Curtis, Aaron Phillips, Christopher Oehmen
   Pacific Northwest National Laboratory, Richland, Washington, USA

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 5-SERP: UNIFIED MODELING LANGUAGE, OBJECT ORIENTED METHODS, & CASE STUDIES
Co-Chairs: Dr. Wayne Smith, Argosy University – Dallas, Texas, USA;
          Prof. Diego Mauricio Torres Arias, EAFIT University, Colombia;
          Dr. Mona Alkhattabi, Imam Mohammad Bin Saud University, Riyadh, Saudi Arabia
July 23, 2013 (Tuesday); 01:20pm - 03:00pm
(LOCATION: Montecristo 1)

01:20 - 01:40pm: A QoS Driven Web Service Selection Methodology Using UML and UML Profiles
   Rashmi Phalnikar and Devesh Jinwala
   MIT College of Engineering, Pune, India; SV NIT, Surat, India

01:40 - 02:00pm: Generation of Efficient Embedded C Code from UML/MARTE Models
   L. Lennis and J. Aedo
   University of Antioquia, Medellin, Colombia

02:00 - 02:20pm: An Object-Oriented Framework for Digital Voting
   Patricia Dousseau Cabral, Ricardo Pereira e Silva, and Roberto Silvino da Cunha
   Federal University of Santa Catarina - UFSC, Brazil;
   Labsoft in Federal University of Santa Catarina - UFSC, Brazil
02:20 - 02:40pm: An Object Oriented Runtime Complexity Metric Based on Iterative Decision Points
Amr F. Desouky and Letha H. Etzkorn
University of Alabama in Huntsville, Huntsville, Alabama, USA

02:40 - 03:00pm: Towards Improving Object-Oriented Software Maintenance during Change Impact Analysis
Bassey Isong and Obeten Ekabua
North-West University, Mmabatho, South Africa;
University of Venda, Thohoyandou, South Africa

03:00 - 03:20pm: BREAK

SESSION 6-SERP: SYSTEMS MAINTENANCE + USABILITY + COST MANAGEMENT + SOFTWARE TESTING, ANALYSIS, VALIDATION, VERIFICATION + PERFORMANCE STUDIES
Co-Chairs: Co-Chairs: Dr. Jack K. Horner,
JKH Consulting, Los Alamos, New Mexico, USA
July 23, 2013 (Tuesday); 03:20pm - 06:00pm
(LOCATION: Montecristo 1)

03:20 - 04:00pm: INVITED LECTURE
Emerging and Innovative Techniques and Methodology in Software Engineering and Applications for Systems Maintenance and Development
Dr. Maureen Raley

04:00 - 04:20pm: Evaluating the Effectiveness of a Collaborative Requirements Engineering Modeling Notation for Planning Globally Distributed Projects
Paula Laurent, Adam Steele, Jane Cleland-Huang, Patrick Maeder
DePaul University, Chicago, Illinois, USA;
Technical University of Ilmenau, Germany

04:20 - 04:40pm: Analysis and Application of Earned Value Management in Software Development
Frank Tsui
Southern Polytechnic State University, Marietta, Georgia, USA

04:40 - 05:00pm: A Framework for Maturity Assessment in Software Testing for Small and Medium-Sized Enterprises
Adailton F. Araujo, Cassio L. Rodrigues, Auri M. R. Vincenzi, Celso G. Camilo, and Almir F. Silva
Institute of Informatics, Federal University of Goias, Goias, Brazil;
Development Dept., Decisao Sistemas, Aparecida de Goiania, Brazil

05:00 - 05:20pm: Constructing Verifiably Correct Java Programs Using OCL and CleanJava
Yoonsik Cheon and Carmen Avila
The University of Texas at El Paso, El Paso, Texas, USA

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
BIOCOMP'13 CONFERENCE SCHEDULE

The 2013 International Conference on Bioinformatics & Computational Biology

SESSION 5-BIOCOMP: MODELING AND SIMULATION + NOVEL STUDIES
Co-Chairs: Professor Henrikas Pranevicius,
Kaunas University of Technology, Lithuania
July 24, 2013 (Wednesday); 08:00am - 11:40am
(LOCATION: Montecristo 3)

08:00 - 08:20am: Mathematical Model to Align Biological Networks
Nassim Sohaee
University of North Texas at Dallas, Texas, USA

08:20 - 08:40am: Photo-Penetration Depth Growth Dependence in an Agent-Based Photobioreactor Model
K. A. Hawick and A. V. Husselmann
Massey University, Auckland, New Zealand

08:40 - 09:00am: Learning Microscopic Kinetic Characteristic of Endosomal Network by Quantitative Analysis of Snap-shot Microscopy Images
Yannis Kalaidzidis, Lionel Foret, Jonathan E. Dawson, Roberto Villasenor, Frank Julicher, and Marino Zerial
Max-Planck-Institute of Molecular Cell Biology and Genetics, Pfotenhauer Strasse, Dresden, Germany; Max-Planck-Institute for the Physics of Complex Systems, Nothnitzer Strasse, Dresden, Germany; Laboratoire de Physique Statistique, Ecole Normale Superieure, UPMC, CNRS, Paris, France

09:00 - 09:20am: Modelling and Simulation of Regional Cerebral Circulation
H. Pranevicius, D. Naujokaitis, V. Pilkauskas, O. Pranevicius, and M. Pranevicius
Kaunas University of Technology, Lithuania

09:20 - 09:40am: Simulating Spiking Neurons by Hodgkin Huxley Model
Terje Kristensen and Donald MacNearney
Bergen University College, Norway; Aspin Kemp and Associates, New Brunswick, Canada

09:40 - 10:00am: The Method Of Imitational Modeling Of Environmental Objects
Askar Boranbayev, Seilkhan Boranbayev, Trashcheev R.V., Sarancha D.A, Lyulyakin O.P., and Yurezanskaya Y.S.
Nazarbayev University, Republic of Kazakhstan; Eurasian National University, Republic of Kazakhstan; Russian Academy of Sciences, Russia

10:00 - 10:20am: Model-driven Integration Architecture to Overcome Data Complexity - Why we Need Rational Approaches to Face Miscellaneous Issues
Magali Roux and Thierry Pages
BIODATAconsulting, Paris, France; Department of Structure Design Informatics, Sanofi, Montpellier, France

10:20 - 11:00am: POSTER/DISCUSSION SESSION A-BIOCOMP
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)
SESSION 5-BIOCOMP: Continued ... MODELING AND SIMULATION + NOVEL STUDIES
(LOCATION: Montecristo 3)

11:00 - 11:20am: A Maximum Entropy/Environmental Niche Modeling Prediction of the Potential Distribution of Chagas Disease Under Climate Change
Jack K. Horner
Los Alamos, New Mexico, USA

11:20 - 11:40am: Visualization of Organs Electromagnetic Field and DNA
Boucherit Taieb
Boucherit Laboratory, Oran, Algeria

SESSION 6-BIOCOMP: PROTEIN CLASSIFICATION & STRUCTURE PREDICTION, FOLDING, & COMPUTATIONAL STRUCTURAL BIOLOGY + BIOINFORMATICS
Co-Chairs: Dr. Ananda Mondal, Claflin University, USA;
Dr. Asoke Nath, St. Xavier's College (Autonomous), India
July 24, 2013 (Wednesday); 11:40am - 03:00pm
(LOCATION: Montecristo 3)

11:40 - 12:00pm: Bioinformatics Analyses of Chromium Tolerant Genes in Cyanobacteria and Identification of Their Operon in Synechococcus sp. IU 625
Lee H. Lee, Richard D. Garrett, Anna Slusarczyk, Jose L. Perez,
and Tin-Chun Chu
Department of Biology & Molecular Biology, Montclair State University,
Montclair, New Jersey, USA; Department of Biological Sciences,
Seton Hall University, South Orange, New Jersey, USA

12:00 - 12:20pm: Protein Subnetwork Biomarkers for Yeast Using Brute Force Method
Kevin Charles, Andrews Afful, Ananda Mohan Mondal
Claflin University, Orangeburg, South Carolina, USA

12:20 - 01:00pm: LUNCH (On Your Own)

01:00 - 01:20pm: Analysis on Low Prevalence of RAS Mutations in Human Papillary Thyroid Cancer
Shaukat Iqbal Malik, Zoya Khalid1, S. Sameen
National University of Sciences & Technology (NUST), Pakistan;
Sabanci University, Istanbul, Turkey

01:20 - 01:40pm: A Study of Floral Transition in Arabidopsis Using Partial Correlation Analysis
Nilubon Kurubanjerdjit, Jeffrey J.P. Tsai, Jin-Shuei Ciou, Ka-Lok Ng
Asia University, Taichung, Taiwan

01:40 - 02:00pm: Prediction Of Protein-Protein Interaction Sites At Interface Topology Level
Tianchuan Du, Li Liao, and Cathy Wu
University of Delaware, Delaware, USA

02:00 - 02:20pm: Applications of Boolean Functions for Mapping the Mutation of mRNA and Protein Structure: A New Computational Approach
Joyshree Nath
Jogesh Chandra Chaudhuri College, India;
St. Xavier's College (Autonomous), India

02:20 - 02:40pm: Prediction of HIV-1 and Human Protein Interactions Based on a Novel Evolution-aware Structure Alignment Method
Chunyu Zhao and Ahmet Sacan
School of Biomedical Engineering, Science and Health Systems,
Drexel University, Philadelphia, PA, USA

02:40 - 03:00pm: Competitive Imperialistic Approach for Protein Folding
E. Khaji and S. M. Mortazavi
University of Gothenburg, Sweden;
University of Colorado, Denver, Colorado, USA
03:00 - 03:20pm:  BREAK

SESSION 7-BIOCOMP: COMPUTATIONAL BIOLOGY & MEDICAL APPLICATIONS, TOOLS & SYSTEMS + HEALTH INFORMATICS & RELATED ISSUES
Co-Chairs: Dr. Robert A. Warner, Tigard Research Institute, USA; Dr. Steve Richfield, CTO of our thing, Washington, USA; Dr. Fabian Garcia Nocetti, Universidad Nacional Autonoma de Mexico, Mexico
July 24, 2013 (Wednesday); 03:20pm - 06:00pm (LOCATION: Montecristo 3)

03:20 - 03:40pm:  Advances In Performance Improvement Of Time-Frequency Distributions For Doppler Ultrasound Blood Flow Instrumentation
F. Garcia Nocetti, J. Solano Gonzalez, E. Rubio Acosta
Universidad Nacional Autonoma de Mexico, Mexico

03:40 - 04:00pm:  Characteristics of Brain Wave Changes by Affective Pictures
Ruoyu Du and Hyo Jong Lee
Chonbuk National University, Jeonju, Korea

04:00 - 04:20pm:  A Path Analysis Method for Measuring the Resilience of Cancer Patients
Xiaodong Wang and Jun Tian
Fuzhou University, Fuzhou, P. R. China; Fujian Medical University, Fuzhou, P. R. China

04:20 - 04:40pm:  Virus Image Classification Using Different Texture Descriptors
Loris Nanni, Michelangelo Paci, Sheryl Brahnam, Stefano Ghidoni, and Emanuele Menegatti
DEI, University of Padua, Padua, Italy; DEI, Dipartimento di Ingegneria dell'Energia Elettrica e dell'InformazioneVia Venezia, Italy; Missouri State University, Springfield, MO, USA

04:40 - 05:00pm:  Improving Medical Diagnosis by Using Digital Data to Assess the Prior Probability of Disease
Robert A. Warner
Tigard Research Institute, Tigard, Oregon, USA

05:00 - 05:20pm:  The Function of Phase Parameter in the Sampling Data Analysis of BRATUMASS
Zhifu Tao, Yizhou Yao, Zhonglin Han, Meng Yao, Huiyan Wang, Blair Fleet, Erik D. Goodman, Jinyao Yan, and John R. Deller
Suzhou Vocational University, Suzhou, P. R. China; Shenyang University of Technology, Shenyang, P. R. China; East China Normal University, Shanghai, P. R. China; Zhejiang Gongshang University, Hangzhou, P. R. China; BEACON Center, Michigan State University, East Lansing, Michigan, USA

05:20 - 05:40pm:  A Neuro-Fuzzy Approach for Automatic Detection of Breast Cancer Based on Raman Spectroscopy
Francisco Javier Luna Rosas, Julio Cesar Martinez Romo, Miguel Mora Gonzalez, Ricardo Mendoza Gonzalez, and Valentin Lopez Rivas
Instituto Tecnologico de Aguascalientes, Mexico; Universidad de Guadalajara (UdeG), Centro Universitario de los Lagos, Mexico

05:40 - 06:00pm:  Functionally Diagram Human Brains using Ganged Confocal Scanning Ultra-Violet Fluorescence Microscopes with 3-D Substage Micromanipulator and Cryostat Microtome
Edward Richfield and Steve Richfield
SUVFM Corp., USA

06:00 - 09:00pm:  TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
CSC'13 + MSV'13 + CGVR'13 CONFERENCE SCHEDULES

The 2013 International Conference on Scientific Computing (CSC'13)

+ The 2013 International Conference on Modeling, Simulation and Visualization Methods (MSV'13)

+ The 2013 International Conference on Computer Graphics & Virtual Reality (CGVR'13)

SESSION 7-CSC: SCIENTIFIC & ENGINEERING ALGORITHMS & APPLICATIONS + COMPLEX SYSTEMS + MEDICAL SCIENCE
Co-Chairs: Dr. William Dai, Project Leader,
Los Alamos National Laboratory, USA
July 24, 2013 (Wednesday); 08:00am - 09:40am
(LOCATION: Montecristo 4)

08:00 - 08:20am: New Exact Solutions of a Coupled Korteweg-de Vries Equation
D. M. Mothibi and C. M. Khalique
North-West University, Mafikeng Campus, Mmabatho, South Africa

08:20 - 08:40am: Emergent Properties, Identical Elements in a Recursive Loop and Systems with Unobservable Energy
Guido Massa Finoli
IT Advisor, Rome, Italy

08:40 - 09:00am: A Review of Creep Deformation and Rupture Mechanisms of Low Cr-Mo Alloy for the Development of Creep Damage Constitutive Equations Under Lower Stress
Qihua Xu, Qiang Xu, Zhongyu Lu, Yongxin Pang, Michael Short
University of Huddersfield, Huddersfield, UK;
Teesside University, Middlesbrough, UK

09:00 - 09:20am: Review of Creep Deformation and Rupture Mechanism of P91 Alloy for the Development of Creep Damage Constitutive Equations Under Low Stress Level
Lili An, Qiang Xu, Donglai Xu, Zhongyu Lu
Teesside University, Middlesbrough, UK;
University of Huddersfield, Huddersfield, UK

09:20 - 09:40am: Solutions to a System Containing Singular Integro-Differential Equations
Shihchung Chiang
Chung Hua University, Hsinchu, Taiwan

SESSION 8-CSC: SIMULATION, MODELING, & VISUALIZATION METHODS
Co-Chairs: Prof. Mitchell L. Neilsen, Kansas State University, USA;
Dr. William Dai, Project Leader,
Los Alamos National Laboratory, USA
July 24, 2013 (Wednesday); 09:40am - 12:20pm
(LOCATION: Montecristo 4)

09:40 - 10:00am: Multi-Species Screening in Anti-Ferromagnetic Pair-Annihilation Model Simulations
K. A. Hawick
Massey University, Auckland, New Zealand
10:00 - 10:20am:  FREE SLOT

10:20 - 11:00am:  POSTER/DISCUSION SESSION B-CSC-MSV-CGVR
  July 23, 2013 (Tuesday)
  (LOCATION: Cohiba 8-9)

  O. Robust Synchronization of a Uncertain Complex Dynamical
     Network with Markovian Jumping Topology via Pinning
     Sampled-data Control
     Yeungnam University, Republic of Korea; Robotics Research
     Division, Daegu-Geongbuk Institute of Science & Technology,
     Daegu, Republic of Korea

  O. Camera Tracking for Implementation of Augmented Reality
     Boo-Gyum Kim, Jong-Soo Choi, Jin-Tae Kim
     Solutionix Co., Ltd, Seoul, Korea; Chung-Ang University,
     Seoul, Korea; Hanseo University, Chungnam, Korea

SESSON 8-CSC:  Continued ... SIMULATION, MODELING, & VISUALIZATION METHODS
  (LOCATION: Montecristo 4)

11:00 - 11:20am:  FREE SLOT

11:20 - 11:40am:  Parallelization of a Multi-physics Code
  William Dai, A. J. Scannapieco, Frederick Cochran,
  James Painter, and Chong Chang
  Los Alamos National Laboratory, Los Alamos, New Mexico, USA

11:40 - 12:00pm:  Global Sensitivity Analysis of Dam Erosion Models
  Mitchell L. Neilsen
  Kansas State University, Manhattan, Kansas, USA;

12:00 - 12:20pm:  Persistence of Plummer-Distributed Small Globular Clusters as
                    a Function of Primordial-Binary Population Size
                    Jack K. Horner
                    Los Alamos, New Mexico, USA

12:20 - 01:20pm:  LUNCH (On Your Own)

SESSON 9-CGVR:  VIRTUAL REALITY + GRAPHICS + RELATED METHODS
  Co-Chairs: John Moreland, Center for Innovation through Visualization
            and Simulation (CIVS), Purdue University Calumet, USA
  July 24, 2013 (Wednesday); 01:20pm - 02:20pm
  (LOCATION: Montecristo 4)

01:20 - 01:40pm:  FREE SLOT

01:40 - 02:00pm:  Facial Expression Recognition Using Adaptive Templates
  Antoinette Attipoe, Jie Yan
  Bowie State University, USA

02:00 - 02:20pm:  Mixed Presence - A Platform to Showcase a Virtual and
                    Live Event
                    Madhvi Kamra and Ratnamala Manna
                    Innovation Lab, Tata Consulting Services, India
SESSION 10-MSV: VISUALIZATION, GRAPHICAL USER INTERFACE, TOOLS & TECHNIQUES
Co-Chairs: Dr. Hans-Peter Bischof, Rochester Institute of Technology, USA
Bruce Paizen, The University of Manitoba, Canada
July 24, 2013 (Wednesday); 02:20pm - 05:00pm
(LOCATION: Montecristo 4)

02:20 - 02:40pm: MARWind: Mobile Augmented Reality Wind Farm Visualization
John Moreland, Qiuhao Zhang, Gerald Dekker, Chenn Zhou
Purdue University Calumet, Hammond, USA

02:40 - 03:00pm: How Data can become Data a Movie Star?
Hans-Peter Bischof
Rochester Institute of Technology, Rochester, NY, US

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Integration of Augmented Reality with Computational Fluid Dynamics for Power Plant Training
John Moreland, Jichao Wang, Yanghe Liu, Fan Li, Litao Shen, Bin Wu, and Chenn Zhou
Purdue University Calumet, USA

03:40 - 04:00pm: Monitoring of Mixing Process by Visualization of Stirred Bio-diesel Production Reactor Using Electrical Capacitance Tomography
Syed F.A. Bukhari and Adesoji A. Adesina
Sir Syed University of Engineering & Technology, Karachi, Pakistan; Reactor Engineering & Technology Group, School of Chemical Engineering, University of New South Wales, Sydney, NSW, Australia

04:00 - 04:20pm: FREE SLOT

04:20 - 04:40pm: FREE SLOT

04:40 - 05:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
DMIN'13 CONFERENCE SCHEDULE

The 2013 International Conference on Data Mining

SESSION 6-DMIN: SEGMENTATION, CLUSTERING, ASSOCIATION + WEB / TEXT / MULTIMEDIA MINING
Co-Chairs: Dr. Peter Geczy (AIST, Japan), Dr. Robert Stahlbock (University of Hamburg, Germany), Dr. Gary M. Weiss (Fordham University, New York, USA)
July 24, 2013 (Wednesday); 08:00am - 10:40am
(LOCATION: Cohiba 3)

08:00 - 08:20am: Mining for Hydrologic Features in LiDAR Data
Rebecca Reizner, Eric Shaffer, Brianna Birman
University of Illinois at Urbana-Champaign, USA

08:20 - 08:40am: Role of Social Media in Early Warning of Norovirus Outbreaks: A Longitudinal Twitter-Based Infoveillance
Wasantha Jayawardene, Ahmed Youssef Agha, David Lohrmann
Indiana University, Bloomington, USA

08:40 - 09:00am: Spatial-Temporal Clustering of a Self-Organizing Map
Carlos Enrique Gutierrez
University of the Ryukyus, Japan

09:00 - 09:20am: An Evolutionary Associative Contrast Rule Mining Method for Incomplete Database
Kaoru Shimada and Takashi Hanioka
Fukuoka Dental College, Japan

09:20 - 09:40am: Hierarchical Video Indexing and Retrieval System
Abdelghani Ghomari, Kazi Tani Lamia Fatiha, and Mohammed Yassine Kazi Tani
Algeria

09:40 - 10:00am: A Novel Query Suggestion Method Based On Sequence Similarity and Transition Probability
Zhendong Niu, Bo Shu, Xiaotian Jiang, Ghulam Mustafa
Beijing Institute of Technology, P. R. China

10:00 - 10:20am: Social Network Anonymization and Influence Preservation
Alina Campan and Yasmeen Alufaisan
Northern Kentucky University, USA

10:20 - 10:40am: Large Scale Visual Classification with Parallel, Imbalanced Bagging and Incremental LIBLINEAR SVM
Thanh-Nghi Doan, Thanh-Nghí Do, François Poulet
INRIA, France

10:40 - 11:00am: BREAK

11:00 - 12:20pm: DMIN'13 - INVITED TALK/LECTURE
Big Data = Big Challenges?
Dr. Peter Geczy
National Institute of Advanced Industrial Science and Technology (AIST), Japan
(LOCATION: Cohiba 3)

12:20 - 01:20pm: LUNCH (On Your Own)
SESSION 7-DMIN: FILTERING, FEATURE SELECTION, INTEGRATION, ENSEMBLES
Co-Chairs: Dr. Robert Stahlbock (University of Hamburg, Germany), Dr. Gary M. Weiss (Fordham University, New York, USA)
July 24, 2013 (Wednesday); 01:20pm - 03:00pm
(LOCATION: Cohiba 3)

01:20 - 01:40pm: A Novel Randomized Feature Selection Algorithm
Sanguthevar Rajasekaran, Subrata Saha, Rampi Ramprasad
University of Connecticut, USA

01:40 - 02:00pm: Fraud Detection Using Reputation Features, SVMs, and Random Forests
Dave DeBarr
George Mason University, USA

02:00 - 02:20pm: A Novel Ensemble Selection Technique For Weak Classifiers
Kung-Hua Chang
University of California, Los Angeles, California, USA

02:20 - 02:40pm: Labeled Subgraph Matching Using Degree Filtering
Lixin Fu
University of North Carolina, Greensboro, USA

02:40 - 03:00pm: Isolating Sparsity in Collaborative Filtering Ratings Matrices
Brian Pechkis and Eun-Joo Lee
East Stroudsburg University of Pennsylvania, USA

03:00 - 03:20pm: BREAK

03:20 - 05:20pm: TUTORIAL
Extensions And Applications of Universum Learning
Professor Vladimir Cherkassky
Fellow of IEEE, Professor, Department of Electrical and Computer Engineering, University of Minnesota, Minneapolis, USA; Recipient of The A. Richard Newton Breakthrough Research Award from Microsoft Research for development and application of new learning methodologies.
(LOCATION: Cohiba 3)

05:20 - 05:40pm: (Buffer Q&A)

05:40 - 06:00pm: DMIN Closing Remarks
Dr. Robert Stahlbock (University of Hamburg, Germany), DMIN 2013 Chair

06:00 - 09:00pm: MORE TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
EEE'13 & IKE'13 CONFERENCE SCHEDULES

The 2013 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'13)
+
The 2013 International Conference on Information & Knowledge Engineering (IKE'13)

08:00 - 10:20am: During this period, EEE and IKE attendees are encouraged to participate in sessions belonging to BIOCOMP'13, FECS'13, GEM'13, ICAI'13, ICOMP'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of EEE and IKE.

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-EEE-IKE
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)
O. An Intelligent EFL Learning Platform for the Cultivation of Students' Autonomy
Yan Tian
Shanghai Jiao Tong University, P. R. China
O. Exploring the Usage Behaviors in Social Network Services
Nai-Ching Yeh, Judy Chuan-Chuan Lin, Hsi-Peng Lu
National Taiwan University of Science and Technology, Taipei, Taiwan, ROC; Soochow University, Taipei, Taiwan, ROC
O. Learning Online: The Role of Attitudes Towards Online Communication
Nicola Marsden
Heilbronn University, Heilbronn, Germany
O. A Systematic Review of Integration of ICT in Science Classrooms
Chiu-Liang Chen, Janet Mei-Chuen Lin, Yi-Jiun Wu, Shiau-Chi Weng
National Taiwan Normal University, Taiwan
O. ...

11:00 - 11:40am: During this period, EEE and IKE attendees are encouraged to participate in sessions belonging to BIOCOMP'13, FECS'13, GEM'13, ICAI'13, ICOMP'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of EEE and IKE.

11:40a - 12:40p: LUNCH (On Your Own)

SESSION 6-EEE (CONCURRENT SESSION WITH PART OF SESSION 7-IKE)
E-BUSINESS, E-COMMERCE, E-BANKING, ENTERPRISE INFORMATION SYSTEMS, & SECURITY + MANAGEMENT, TOOLS, WEB, INFORMATION EXTRACTION + APPLICATIONS & STANDARDS
Co-Chairs: Dr. Charles Balch, Northern Arizona University, USA
July 24, 2013 (Wednesday); 12:40pm - 04:20pm
(LOCATION: Montecristo 2)

12:40 - 01:00pm: FREE SLOT
01:00 - 01:20pm: For Your Eyes Only - Biometric Protection of PDF Documents
Jacek Siciarek, Maciej Smiatacz, Bogdan Wiszniewski
Gdansk University of Technology, Gdansk, Poland

01:20 - 01:40pm: Exploring Chinese Users' Acceptance of Social Commerce Sites
Jia Shen
College of Business Administration, Rider University, Lawrenceville, New Jersey, USA

01:40 - 02:00pm: SWEP Protocol and S-Wallet System - Mobile Payments Using Near Field Communications
S. H. V. C. Silva, E. L. Flores, G. A. Carrijo, A. C. P. Veiga, and e M. B. P. Carneiro
Universidade Federal de Uberlandia, Brazil

02:00 - 02:20pm: E-Banking and Cashless Transaction Policy in Lagos State Nigeria
Diliora Kene Iqboanugo, Alexander Moghal, and Nnenna Christine Eric-Nwonye
Coventry University, Coventry, UK; North West University, Mafikeng Campus, Mafikeng, South Africa

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: Information Transfer Model in Hotel Chain Management
Niran Chawla and Montri Wiboonrat
Assumption University, Bangkok, Thailand; Khon Kaen University, Bangkok Campus, Thailand

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: A Study of the User Behavior for Social Network Sites
S. M. Horng
National Chengchi University, Taiwan, ROC

03:40 - 04:00pm: Academic Research Quality E-Valuation: An Adaptive Hybrid Model Based on Journal Rankings and Citing Methodologies
Evangelia A.E.C. Lipitakis and Alexandra Lipitakis
Kent Business School, University of Kent, Canterbury, Kent, England

04:00 - 04:20pm: FREE SLOT

SESSION 7-IKE
(CONCURRENT SESSION WITH PARTS OF SESSIONS 6-EEE & 8-EEE)
KNOWLEDGE ENGINEERING & MANAGEMENT + KNOWLEDGE ACQUISITION
Co-Chairs: Dr. Jianhua Chen, Louisiana State University, USA; Prof. Kamran Ahsan, Federal Urdu University of Arts, Science & Technology, Karachi, Pakistan; Kato Mivule, Bowie State University, Maryland, USA
July 24, 2013 (Wednesday); 03:20pm - 05:40pm
(LOCATION: Partagas 2)

03:20 - 03:40pm: Kukulcan: Semantic Web Framework for Knowledge Management in the Domain of Digital Circuits
Francisco-Edgar Castillo-Barrera, R. Carolina Medina-Ramirez, Jose Labra Gayo, and S. Masoud Sadjadi
Universidad Autonoma de San Luis Potosi, Mexico; Universidad Autonoma Metropolitana, Mexico; Universidad de Oviedo C/Valdes Salas, Spain; Florida International University (FIU), Miami, USA
03:40 - 04:00pm: Extracting Human-readable Knowledge Rules in Complex Time-evolving Environments
Pu Yang and David L. Roberts
North Carolina State University, Raleigh, North Carolina, USA

04:00 - 04:20pm: Visualisation of Combinatorial Program Space and Related Metrics
A. V. Husselmann and K. A. Hawick
Massey University, Auckland, New Zealand

04:20 - 04:40pm: Technology Innovation for Knowledge Sharing in Transdisciplinary Collaboration
Pratap Chillakanti and Atila Ertas
Texas Tech University, Lubbock, Texas, USA

04:40 - 05:00pm: Mining the Boundaries of Social Networks: Crawling Facebook and Twitter for BlogIntelligence
Philipp Berger, Patrick Hennig, Thomas Klingbeil, Matthias Kohnen, Steffen Pade, and Christoph Meinel
Hasso-Plattner-Institute, University of Potsdam, Germany

05:00 - 05:20pm: A New Adaptive Sampling Method For Scalable Learning
Jianhua Chen and Jian Xu
Louisiana State University, Baton Rouge, Louisiana, USA

05:20 - 05:40pm: FREE SLOT

SESSION 8-EEE: (CONCURRENT SESSION WITH PART OF SESSION 7-IKE)
TOPICS IN E-LEARNING, E-BUSINESS, ENTERPRISE INFORMATION SYSTEMS, AND E-GOVERNMENT: LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Charles Balch, Northern Arizona University, USA
Prof. Abbas M. Al-Bakry, University of Babylon, Iraq
July 24, 2013 (Wednesday); 04:20pm - 06:00pm (est)
(LOCATION: Montecristo 2)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. Course Management Systems
Cameron Henige, Kyle Head, Mark Beilfuss, Jeff Brandon, Tom Lagona, Rolando Casipit, and Roger Lee
Central Michigan University, Michigan, USA

O. A Framework for Enabling Incidental Learning on the Web
Hongxue (Harris) Wang
Athabasca University, Alberta, Canada

O. Towards Open Distance and Electronic Learning (OdeL)
Mmafani Serote, Mokateko Mathimbi, Munienge Mbodila
University of South Africa, South Africa; University of Venda, South Africa

O. Meeting the E-Commerce Privacy Key Concept, A Conceptual Survey
Sam Farshchi
Tehran Institute for Scientific Methodology, Tehran, Iran

O. Use of Pedagogically Indexed Text with LOM in Computer-assisted Language Learning System
Asma Boudhief, Mohsen maraoui, Mounir Zrigui
LATICE Laboratory, Higher School of Sciences & Techniques of Tunis, Tunisia; University of Monastir, Tunisia; LATICE Laboratory, University of Monastir, Tunisia
O. Opinion Mining on Newspaper Quotations
   S. Padmaja, S. Sameen Fatima, Sasidhar Bandu
   Osmania University, Hyderabad, India;
   Salman Bin Abdul Aziz University, Saudi Arabia

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
   (Please see the lists at the beginning of this book)
ERSA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Engineering of Reconfigurable Systems and Algorithms

08:00a - 05:40p: For today, ERSA attendees are encouraged to participate in sessions belonging to PDPTA'13, ESA'13, CDES'13, ICWN'13, and/or SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of ERSA'13.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
FECS'13 CONFERENCE SCHEDULE

The 2013 International Conference on Frontiers in Education:
Computer Science and Computer Engineering

SESSION 4-FECS: LEARNING MODELS, METHODOLOGIES, TOOLS & CASE STUDIES
Co-Chairs: Dr. Fiona Carroll, University of South Wales, Uk
July 24, 2013 (Wednesday); 08:00am - 02:00pm
(LOCATION: Cohiba 4)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Improvements in Communication Process Projects Using Real Social Network
Inst. of Technology, Federal University of Para (UFPA), Brazil

08:40 - 09:00am: The "Know-How Kit" Software
Marcella Coccanari and Rocco Lanata
Coccanari & Partners Law Firm, City Council of Rome, Italy; BKC Business Company, Milano, Italy

09:00 - 09:20am: 802.11 Wireless Networks: Incorporating Hands-On Learning Experience into the Undergraduate Classroom
Mira Yun, Charlie Wiseman, Leonidas Deligiannidis
Wentworth Institute of Technology, Boston, MA, USA

09:20 - 09:40am: Interactive Learning to Improve Student Success Rates in Teaching Programming: A Case Study
Said Fares and Mary Fares
Valdosta State University, Valdosta, USA

09:40 - 10:00am: Games as a Proposal for Change in the Civil Engineering Learning Process
Rosas Sanchez and Casanova del Angel, F.
Instituto Politecnico Nacional, Mexico

10:00 - 10:20am: Haskell as an Introduction to Parallel Computing for Undergraduates
Kyle Barton, Sam Dodson, Danielle Fenske, Ben Whitehead, and Jens Mache
Lewis & Clark College, Portland, Oregon, USA

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-FECS
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

SESSION 4-FECS: Continued ... LEARNING MODELS, METHODOLOGIES, TOOLS & CASE STUDIES
(LOCATION: Cohiba 4)

11:00 - 11:20am: Heuristic Evaluation of Two Computer Supported Collaborative Tools of Four Learning Content Management Systems
Rocio Calvo, Almudena Gil, Beatriz Iglesias, Ana Iglesia
Universidad Carlos III de Madrid, Madrid, Spain

11:20 - 11:40am: A Learning Model of Simple Computing Machine Architecture
Tai-Chi Lee and Hector Zimmermann-Ayala
Saginaw Valley State University, Michigan, USA
11:40 - 12:00pm: Learning Computer programming With a COAC#
Marcos A. Jakeline
Inst. Tec. y de Estudios Superiores de Monterrey (ITESM), Mexico

12:00 - 12:20pm: FREE SLOT

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 4-FECS:Continued ... LEARNING MODELS, METHODOLOGIES, TOOLS & CASE STUDIES
,LOCATION: Cohiba 4)

01:20 - 01:40pm: What Makes the Difference, the Active Learning Activities or
the Technology in the Classroom?
Yolanda Martinez-Trevino
ITESM, Campus Monterrey, Mexico

01:40 - 02:00pm: ACM ICPC in China: Learning From Contests
Dalie Sun, Lixin Wang, Zhaonian Zou
Harbin Institute of Technology, Harbin, P. R. China

SESSION 5-FECS: RECRUITMENT & MENTORING + METHODS FOR ENHANCING EDUCATIONAL ENVIRONMENT
+ TOOLS AND CASE STUDIES
Co-Chairs: Professor Said Fares, Valdosta State University, Georgia, USA;
Dr. Fiona Carroll, University of South Wales, Uk
July 24, 2013 (Wednesday); 02:00pm - 06:00pm
,LOCATION: Cohiba 4)

02:00 - 02:20pm: Engaging Preadolescent Females in Computer Science Through
Robotic Art
Brian McLaughlan
University of Arkansas - Fort Smith, Arkansas, USA

02:20 - 02:40pm: Evaluating a Prospective Student Mentoring Program
Amber Settle, Sarah Pieczynski, Liz Friedman, Nathan Kizior
DePaul University, Chicago, Illinois, USA

02:40 - 03:00pm: Transformative Pedagogy For Integrative Amelioration
Bandi S Herold, M. Muralidhara Rao, S. Ramesh Babu
Swarnandhra College of Engineering & Technology, Narsapur, India

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Exploring Computer Science and a High School Program of Study
in Computing
Daniel W. Lewis and Ruth E. Davis
Santa Clara University, Santa Clara, California, USA

03:40 - 04:00pm: Coaching Robotics Competitions with Tekkotsu
Xuejun Liang
Jackson State University, MS, USA

04:00 - 04:20pm: Engaging Underrepresented Students in Computer Science: Examining
the Effectiveness of a 5-week Computer Science Course in the
SMASH Summer Academy
Alexis Martin and Allison Scott
Level Playing Field Institute, Oakland, California, USA

04:20 - 04:40pm: Creating An Environment Supportive Of Diversity in Computing
Paul Mullins, Deborah Whitfield, David Dailey, Beverly Gocal
Slippery Rock University, Slippery Rock, PA, USA

04:40 - 05:00pm: Microsoft Kinect Interface for Children's Education
Bryant Hicks, Jonathan Kissinger, Roger Lee
Central Michigan University, Mount Pleasant, Michigan, USA
05:00 - 05:20pm:  A General Course-Level Assessment Cycle for Computing Courses  
Iraj Danesh  
Alabama State University, Alabama, USA

05:20 - 05:40pm:  Effects of Group Learning in Programming Class  
Youngmi Kwon  
Chungnam National University, Korea

05:40 - 06:00pm:  Investigating Female Students' Attitude Towards Cheating and Plagiarism: A Study in King Saud University  
Manar Hosny and Shameem Fatima  
King Saud University, Riyadh, Saudi Arabia

06:00 - 09:00pm:  TUTORIALS + PANEL DISCUSSIONS  
(Please see the lists at the beginning of this book)
SESSION 7-ICAI: (CONCURRENT SESSION WITH SESSION 8-ICAI)
KNOWLEDGE DISCOVERY AND LEARNING
Co-Chairs: Dr. Raymond A. Liuzzi, Raymond Technologies, New York, USA;
Dr. Peter M. LaMonica, US Air Force Research Lab, AFRL/RIED, USA; Dr. Todd Waskiewicz, US Air Force Research Lab, AFRL/RIED, USA)
July 24, 2013 (Wednesday); 08:00am - 10:40am
(LOCATION: Cohiba 7)

08:00 - 08:20am: A Framework for Multi-source Semantic Information Extraction and Fusion for Collaborative Threat assessment (SIFT)
Perakath Benjamin, Karthic Madanagopal, Kalyan Vadakkeveedu, Paul Koola
Knowledge Based Systems, Inc., Austin, Texas, USA

08:20 - 08:40am: Cognitive RF Systems and EM Fratricide - Part II
Gerard T. Capraro
Capraro Technologies, Inc., Utica, New York, USA

08:40 - 09:00am: Sensor Planning with Cloud-Based Predictive Analytics
Aaron Wheeler, Jim Dike, Michael Winburn
3-Sigma Research, Inc., Indialantic, Florida, USA

09:00 - 09:20am: Association Discovery Framework in WebTAS
M. Heidi McClure, Larry Rose, Roger J. Dziegiel, Jr
Intelligent Software Solutions, Inc., Colorado Springs, Colorado, USA;
Air Force Research Laboratory (AFRL), Rome, New York, USA

09:20 - 09:40am: Temporally Aligning Clusters of Social Media Reaction to Speech Events
Brian Amanatullah, Greg Barish, Matthew Michelson, Steve Minton
InferLink Corporation, El Segundo, California, USA

09:40 - 10:00am: A Cloud Computing Framework with Machine Learning Algorithms for Industrial Applications
Brian Xu, Dinkar Mylaraswamy, Paul Dietrich
Honeywell Aerospace, Golden Valley, MN, USA

10:00 - 10:20am: Social Network Analysis - Network and Link Detection in Overwhelming and Noisy Data Streams
James Schneider, Tod Hagan, Lee Krause, Bruce McQueary
Securboration Inc., Melbourne, Florida, USA
July 24

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-ICAI/GEM

July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

O. Expert System Solution for Fault Detection Purposes in Power Distribution Systems
C.G. Gonzales, M.A. Carrapato, T.S. Bonfin, P.I. Costa, D.H. Spatti,
R.A. Flauzino, and I.N. Silva
EDP - Energias De Portugal, Portugal;
USP/EESC/SEL, Sao Carlos, SP, Brazil

O. Using Computational Vision and Artificial Neural Networks in Electrical Insulator Preventive Maintenance
I.N. Silva, R.A. Flauzino, V.H. Mustacio, S. Vallin, J.F.R. Silva
University of Sao Paulo, USP/EESC/SEL, Brazil

O. Development of an Approach for Choosing the Input Variables for a Forecast Fuzzy Inference System
L. A. Moraes, R. A. Flauzino, M. A. Araujo, O. E. Batista
University of Sao Paulo - USP, Sao Carlos, Brazil

O. Expert System for Accurate Diagnosis of Power Transmission Transformer
C.G. Gonzales, T.S. Bonfin, P.I. Costa, M.A. Carrapato, I.N. Silva,
R.A. Flauzino, D.H. Spatti
University of Sao Paulo, Brazil

O. Relation Between Electric Energy Consumption and Socioeconomic Indexes Using an Approach of Data Envelopment Analysis: Study of the Brazilian Industrial Parks
Daniela Hereid, A. Clecio F. Thomaz, L. G. S. Queiroz
University of the State of Ceara, Brazil


SESSION 8-ICAI: (CONCURRENT SESSION WITH SESSIONS 7-ICAI & part of 9-GEM)
PREDICTION METHODS + HUMAN ACTIVITY DISCOVERY + SEARCH & IR + DATABASES + PATTERN ANALYSIS + APPLICATIONS OF ADVANCED AI TECHNIQUES TO INFORMATION MANAGEMENT FOR SOLVING COMPANY-RELATED PROBLEMS
Co-Chairs: Dr. Jose A. Olivas, University of Castilla - La Mancha, Spain
July 24, 2013 (Wednesday); 08:00am - 12:20pm
(LOCATION: Montecristo 2)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Can We Predict Speciation and Species Extinction Using an Individual-Based Ecosystem Simulation?
Morteza Mashayekhi, Meisam Hosseini Sedehi, Robin Gras
University of Windsor, Canada

08:40 - 09:00am: A Grey Prediction Based TOPSIS Decision Making for Product Form Design
Yang-Cheng Lin
Department of Arts and Design, National Dong Hwa University, Taiwan

09:00 - 09:20am: Investigation of Cluster Validity Indices for Unsupervised Human Activity Discovery
Wee Hong Ong, Takafumi Koseki, Leon Palafox
University of Tokyo, Tokyo, Japan;
University of California, Los Angeles, California, USA

09:20 - 09:40am: A MEMs-based Labeling Approach to Punctuation Correction in Chinese Opinionated Text
Yanqing Zhao and Guohong Fu
School of CS & Technology, Heilongjiang University, P. R. China

98
09:40 - 10:00am: Genetic Algorithm with Double Chromosome for Prediction of Protein Concentration on Wheat
Kelton de Souza Santiago, Anderson da Silva Soares, Telma Woerle de Lima, G. Teodoro Laureano, Clarimar Jose Coelho, Arlindo Rodrigues Galvao Filho
Federal University of Goias, Brazil; Pontifical University Catholic of Goias, Brazil; Technological Institute of Aeronautics, Brazil

10:00 - 10:20am: Model Checking Safety Properties Through Simulation and Heuristic Search
Nicoletta De Francesco, G. Lettieri, Antonella Santone, Gigliola Vaglini
Dip. di Ingegneria dell'Informazione, University of Pisa, Pisa, Italy; Dip. di Ingegneria, University of Sannio, Benevento, Italy

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-ICAI/GEM
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

SESSION 8-ICAI: Continued ...
Co-Chairs: Dr. Jose A. Olivas, University of Castilla - La Mancha, Spain
(LOCATION: Montecristo 2)

11:00 - 11:20am: Simulation Results for a Cache Management System Used in a Deductive Database
Larry Williams, Martin Maskarinec, Kathleen Neumann*
Associate Provost, Western Illinois University, Macomb, Illinois, USA

11:20 - 11:40am: Improving Educational Methods by Means of an Intelligent Virtual Agent
Celia G. Rospide, Cristina Puente, Jose A. Olivas
Advanced Technical Faculty of Engineering - ICAI, Pontificia Comillas University, Alberto Aguilera, Madrid, Spain

11:40 - 12:00pm: A Fuzzy Classifier for Nucleation Events of Atmospheric Aerosol Particles
Francisco P. Romero, Maria T. Baeza, Jose A. Olivas, Emilio Martinez-Torres
Department of Information Technologies and Systems, University of Castilla-La Mancha, Ciudad Real, Spain

12:00 - 12:20pm: Correction Factor Optimization in User Profile Similarities
Roberto Seisdedos, Eduardo C. Garrido, Cristina Puente, Jose A. Olivas
Advanced Technical Faculty of Engineering - ICAI, Pontificia Comillas University, Alberto Aguilera, Madrid, Spain

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 9-GEM: (CONCURRENT SESSION WITH SESSION with part of 8-ICAI)
EVILOUTIONAY STRATEGY + GENETIC ALGORITHMS & APPLICATIONS + GENETIC PROGRAMMING
Co-Chairs: Dr. Ronald Hartung, Faculty Franklin University, USA; Adil Khan, Northern Kentucky University, Kentucky, USA
July 24, 2013 (Wednesday); 11:00am - 02:20pm
(LOCATION: Cohiba 7)

11:00 - 11:20am: Comparison of Uncorrelated and Correlated Evolutionary Strategies with Proposed Additional Geometric Translations
Sandra Debruyne and Devinder Kaur
University of Toledo, Toledo, Ohio, USA

11:20 - 11:40am: Genetic Programming Using the Karva Gene Expression Language on Graphical Processing Units
A. V. Husselmann and K. A. Hawick
Massey University, Auckland, New Zealand
11:40 - 12:00pm: A Genetic-Based Nurse Rostering Tool: A Riyadh Hospital Case
Manar Hosny and Najla Al Turiki
King Saud University, Riyadh, Saudi Arabia

12:00 - 12:20pm: A Genetic Algorithm for Multiprocessor Task Scheduling
Tashniba Kaiser, Olawale Jegede, Ken Ferens, Douglas Buchanan
University of Manitoba, Winnipeg, MB, Canada

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: A Chaotic Genetic Algorithm for Radio Spectrum Allocation
Olawale David Jegede, Ken Ferens, Witold Kinsner
University of Manitoba, Winnipeg, Canada

01:40 - 02:00pm: A Genetic Algorithm for Node Localization in Wireless Sensor Networks
Olawale David Jegede and Ken Ferens
University of Manitoba, Winnipeg, Canada

02:00 - 02:20pm: Validation Of a System of Selection of Attributes Using Genetic Algorithms for The UCI to Px With Serious Burns as its Usability in the Clinic
Brenda Rubi Quintero-Silva, Jair Arody del Valle-Lopez, Verenice Zarahi Gonzalez-Mejia, Ramon Andres Diaz-Valladares
Federacion de Instituciones Mexicanas Particulares de Educacion Superior, A.C. (FIMPES), Asociacion Nacional de Universidades e Instituciones de Educacion Superior (ANUIES), Secretaria de Educacion Publica (SEP), Mexico

SESSION 10-ICAI: INTERNATIONAL WORKSHOP ON INTELLIGENT LINGUISTIC TECHNOLOGIES - ILINTEC'13
Co-Chairs: Dr. Elena Kozerenko, Russian Academy of Sciences, Moscow, Russia
July 24, 2013 (Wednesday); 02:20pm - 06:00pm
(LOCATION: Cohiba 7)

02:20 - 02:40pm: Semantic Processor for Knowledge Extraction from Texts in Russian and English
Igor P. Kuznetsov, Elena B. Kozerenko, Nikoli V. Somin
Institute of Informatics Problems of the Russian Academy of Sciences, Moscow, Russia

02:40 - 03:00pm: Knowledge-based and Vertical-driven Information Retrieval
Gavin Matthews* and Max Petrenko
Vice President of Research, Vertical Search Works, USA

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Syntactic Parameters in the Phrasal Machine Translation
Elena Kozerenko, Alexander Khoroshilov, Alexei A. Khoroshilov
Institute of Informatics Problems of the Russian Academy of Sciences, Moscow, Russia

03:40 - 04:00pm: Association-Based Identification of Internet Users Interests
Alexander Petrov and Mikhael M. Charmine
Tinkoff Digital, Moscow, Russia; Institute for Informatics Problems of the Russian Academy of Sciences, Moscow, Russia

04:00 - 04:20pm: Functional and Cognitive Aspects in Linguistic Modelling
Elena B. Kozerenko
Institute for Informatics Problems of the Russian Academy of Sciences, Moscow, Russia

04:20 - 04:40pm: Automatic Processing and Acoustic Normalization of Vowels
Lai Yi-hsiu
Chair, Department of Western Languages & Literature, National University of Kaohsiung (NUK), Taiwan
04:40 - 05:00pm: The Information Structure of the Domain "Intellectual Technologies and Computational Linguistics": Texts, Corpus, Context
Elena Yagunova and Anna Savina
St. Petersburg State University, St. Petersburg, Russia

05:00 - 05:20pm: Optimal Automated Method for Collaborative Development of University Curricula
Mikhael M. Charnine and V. I. Protasov
Institute for Informatics Problems of the Russian Academy of Sciences, Moscow, Russia

05:20 - 05:40pm: Database of Equivalent Verbal Forms in a Russian-French Multivariant Parallel Corpus
Mikhail Kruzhkov, Sylvain Loiseau, Dmitri V. Sitchinava, Anna A. Zalizniak, and Igor M. Zatsman
Russian Academy of Sciences, Moscow, Russia; Universite Paris 13, Laboratoire LDI (Lexiques, Dictionnaires, Informatique), CNRS, France

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 7-GCA: CLOUD COMPUTING AND RELATED ISSUES
Co-Chairs: Dr. Maureen Raley, Civil Service, USA;
Prof. George Jandieri, Georgian Technical University, Georgia;
Prof. Marcel O. Odhiambo, Univ. of South Africa, South Africa
July 24, 2013 (Wednesday); 08:00am - 11:40am
(LOCATION: Partaga 2)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: FREE SLOT

08:40 - 09:00am: Towards a User Deployable Service-oriented Autonomic Multi-cloud Overlay Infrastructure for Sky Computing
Courtney Powell, Masaharu Munetomo, Takashi Aizawa
Hokkaido University Sapporo, Japan

09:00 - 09:20am: SLA-Aware Adaptive Provisioning Method for Virtualized Application Execution Environments
Seunghwan Yoo and Sungchun Kim
Sogang University, Seoul, South Korea

09:20 - 09:40am: Harnessing The Benefits Of Big Data In The Cloud
Felix Njeh and Bo Yang
Bowie State University, Bowie, Maryland, USA

09:40 - 10:00am: A Stream Symmetric Homomorphic Encryption Scheme With Finite Automata
Alejandro Llamas, Raul Ernesto Gonzalez
CINVESTAV Guadalajara, Mexico

10:00 - 10:20am: Energy Efficiency Models Implemented in a Cloud Computing Environment
Thusoyaone J. Moemi and Obeten O. Ekabua
North-West University, Mafikeng Campus, Mmabatho, South Africa

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-ICOMP-GCA-SWWS
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

O. NoC-aware Adaptive Loop Tiling for Explicit Data Transfers in Many Core Systems
Keni Qiu, Mengying Zhao, Chun Jason Xue
City University of Hong Kong, Hong Kong, P. R. China
SESSION 7-GCA: Continued ... CLOUD COMPUTING AND RELATED ISSUES
(LOCATION: Partagas 2)
11:00 - 11:20am: FREE SLOT

11:20 - 11:40am: Social Network Storage Allocation
Faruk Bagci, Mohamed Esam, Aya Kamel, Iman Mansour, Rimon Hanna,
Seif El-Din Allam, and Taher Galal
Kuwait University, Kuwait;
German University in Cairo, Cairo, Egypt

SESSION 8-SWWS: WEB SERVICES AND APPLICATIONS
Co-Chairs: Dr. Ronald P. Vullo,
Rochester Institute of Technology, USA;
Prof. Oleg Reva, University of Pretoria, South Africa
July 24, 2013 (Wednesday); 11:40am - 03:00pm
(LOCATION: Partagas 2)

11:40 - 12:00pm: Integrating Declarative Processes and SOA: A Declarative Web
Service Orchestrator
Natalia Silva, Renata Carvalho, Ricardo Lima, Cesar Oliveira
Federal University of Pernambuco, Brazil

12:00 - 12:20pm: EV-IMP Model: A Comprehensive Model for Evaluation of an
Organization's Website Success
Mohsen M. Doroodchi
Cardinal Stritch University, Milwaukee, WI, USA

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Improving Platform Independent Graphical Performance by
Compressing Information Transfer Using JSON
T. H. McMullen and K. A. Hawick
Massey University, Auckland, New Zealand

01:40 - 02:00pm: RESTful API in Life Science Research Systems and Data
Integration Challenges: Linking Metabolic Pathway, Metabolic
Network, Gene and Publication
Etienne Z. Gnimpieba, Brent S. Anderson, Carol M. Lushbough
University of South Dakota, Vermillion, South Dakota, USA

02:00 - 02:20pm: Quality Monitoring of Service Composition
Carlos Frederico Medeiros de Souza, Nelson Souto Rosa,
and Fernando Antonio Aires Lins
Federal University of Pernambuco, Brazil

02:20 - 02:40pm: DigCam: An Applied Domain Specific Question Answering System
Ali Ghobadi, Maseud Rahgozar, Nouna Khandan
Database Research Group (DBRG), University of Tehran, Iran;
Control and Intelligent Processing Center of Excellence,
University of Tehran, Iran; Islamic Azad University, School
of Engineering, Tehran, Iran

02:40 - 03:00pm: FREE SLOT

03:00 - 03:20pm: BREAK
03:20 - 05:40pm: During this period, ICOMP'13, GCA'13, and SWWS'13 attendees are encouraged to participate in sessions belonging to BIOCOMP'13, EEE'13, FECS'13, ICWN'13, IKE'13, PDPTA'13, or SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of ICOMP'13, GCA'13, and SWWS'13.

06:00 - 09:00pm: MORE TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the begining of this book)
SESSION 8 - ICWN: SENSOR NETWORKS + STORAGE AREA NETWORK
Co-Chairs: Dr. Abhishek Parakh, University of Nebraska at Omaha, Nebraska, USA; Ing. Pavel Rozsival, University of Pardubice, Czech Republic
July 24, 2013 (Wednesday); 08:00am - 10:20am
(LOCATION: Partagas 3)

08:00 - 08:20am: A Multi-hop Source Routing Based on the Topology Matrix in Cluster Sensor Networks
Woosuck Chang, Mary Wu, ChongGun Kim
YeungNam University, Kumi College, Korea

08:20 - 08:40am: Hierarchical Polling-based MAC scheme for Wireless Body Sensor Network
Shusaburo Motoyama
Faculty of Campo Limpo Paulista (FACCAMP), Campo Limpo Paulista, SP, Brazil

08:40 - 09:00am: An Overhearing Implementation for Wireless Multimedia Sensor Networks
Yeonbo Kim, Seokjin Byeon, Byoungchul Ahn
Daegu University, Korea; Yeungnam University, Korea

09:00 - 09:20am: Dynamic Cost with Multi-Criteria Decision Method (MCDM) for Load Balancing in Heterogeneous Mobile Networks
Bassem El Zant and Maurice Gagnaire
Institut Mines-Telecom, Telecom Paris, Tech LTCI UMR, CNRS, France

09:20 - 09:40am: On Smart Wireless Sensor Networks: Directions and Challenges
Dan Partynski and Simon G. M. Koo
University of San Diego, California, USA

09:40 - 10:00am: Enhancing Productivity of Costs and Energy through VNC and SAN
Sheida Shirazi, Mohammad Ganji, Marjan Abdyazdan
Mahshahr branch, Islamic Azad University, Mahshahr, Iran; Tarbiat Modares University, Tehran, Iran

10:00 - 10:20am: FREE SLOT
10:20 - 11:00am: POSTER/DISCUSSION SESSION B-ICWN-ESA
July 24, 2013 (Wednesday)
,LOCATION: Cohiba 8-9

O. A Short Survey on User-aware Power Management
   Dongwon Min and Sung Wo Chung
   Dankook University, Kyonggi-do, Korea;
   Korea University, Seoul, Korea

O. GPS and GSM Based Points of Interest Localization System for Blind People
   Wojciech Gelmuda and Andrzej Kos
   AGH University of Science and Technology, Krakow, Poland

O. A Study on Signal Interference in Clustered WiFi Networks
   Jie Zhang, Hwa Jong Kim, Goo Yeon Lee
   Kangwon National University, Chuncheon, Kangwon-Do, Korea

O. Implementation of Automotive Platform for Real-Time Diagnosis
   Minwoo Jung, Jeonghun Cho
   Kyungpook National University

O. ...

SESSION 9-ICWN: COMMUNICATION SYSTEMS + ALGORITHMS + TOOLS + TRANSMISSION SYSTEMS + PROTOCOLS & ROUTING
Co-Chairs: Professor Annamalai Annamalai; Professor and Director of CECSTR, Prairie View A&M University, USA
           Professor Hussain Al-Asaad, University of California, Davis, USA
July 24, 2013 (Wednesday); 11:00am - 12:40pm
,LOCATION: Partagas 3

11:00 - 11:20am: A General Review of Different Methods for Wireless Power Transmission
   Shahram Javadi, Aliasghar Mohamedi
   Islamic Azad University, Central Tehran Branch

11:20 - 11:40am: Cooperative Communication in Free Space Optical Systems
   Vineeta Dubey, D. Chadha, Vinod Chandra
   Indian Institute of Technology Delhi, India

11:40 - 12:00pm: Evaluation of the Capacity of MIMO-OFDM Free Space Optical Communication System in Strong Turbulent Atmosphere
   Manish Sharma, D. Chadha, Vinod Chandra
   Indian Institute of Technology Delhi, India

12:00 - 12:20pm: Yet Another Look at the Problem of Detection of Unknown Deterministic Signals Over k-u and n-u Fading Channels
   A. Olaluwe, P. Mahesh, A. Annamalai
   Prairie View A&M University, Texas, USA

12:20 - 12:40pm: FREE SLOT

12:40 - 01:20pm: LUNCH (On Your Own)
SESSION 10-CDES: PROCESSOR & INTEGRATED CIRCUIT DESIGN + NOC + LOW POWER COMPUTING + TESTING
Co-Chairs: Professor Hussain Al-Asaad,
University of California, Davis, USA
July 24, 2013 (Wednesday); 01:20pm - 02:00pm
(LOCATION: Partagas 3)

01:20 - 01:40pm: A Fault Injection Environment for the Evaluation of a Soft Error Detection Technique based on Time-Redundancy
Luis Bustamante and Hussain Al-Asaad
University of California - Davis, California, USA

01:40 - 02:00pm: A Comparative Analysis of Parallel Prefix Adders
Megha Talsania and Eugene John
University of Texas at San Antonio, Texas, USA

SESSION 11-ESA: NOVEL SYSTEMS DESIGN & APPLICATIONS + POWER EFFICIENCY & MANAGEMENT
Co-Chairs: Prof. Iraj Danesh, Alabama State University, USA; Prof. Felix Njeh, Bowie State University, USA
July 24, 2013 (Wednesday); 02:00pm - 03:00pm
(LOCATION: Partagas 3)

02:00 - 02:20pm: Developing an Ultra-Low Power Remote Infrastructure Monitoring System
Ross Liederbach, Ashley Little, Flora Xiao, Cornel Zlibut, Guoqing Zhou, Chris Farnell, Brett Sparkman, Jingxian Wu, and Scott C. Smith
University of Arkansas, Fayetteville, Arkansas, USA; University of Illinois, Urbana-Champaign, Illinois, USA; Tennessee State University, Nashville, Tennessee, USA

02:20 - 02:40pm: A Knapsack Scheduling Algorithm for Soft Real-time Multiprocessor System
Shaohang Cui, Douglas Buchanan, Ken Ferens
ERLPhase Power Technologies Ltd., Winnipeg, MB, Canada; University of Manitoba, Winnipeg, MB, Canada

02:40 - 03:00pm: A Hardware Accelerator Design Process for Speech Recognition Application
Byron Buitrago, Johnny Aguirre, Andres Benavides
University of Antioquia, Colombia

SESSION 12-ICWN: MOBILE COMPUTING + MOBILE AGENTS + AD-HOC NETWORKS + MANET + SCHEDULING
Co-Chairs: Professor Vasil Y. Hnatyshin, Rowan University, USA
July 24, 2013 (Wednesday); 03:00pm - 06:00pm
(LOCATION: Partagas 3)

03:00 - 03:20pm: Minimum Latency Aggregation Scheduling in Interference-Aware 3-Dimensional WSNs
Min Kyung An, Nhat X. Lam, D. T. Huynh, Trac N. Nguyen
University of Texas at Dallas, Texas, USA

03:20 - 03:40pm: The iTrust Local Reputation System for Mobile Ad-Hoc Networks
Wei Dai, L. E. Moser, P. M. Melliar-Smith, I. Michel Lomberta, and Y. T. Chuang
University of California, Santa Barbara, California, USA

04:00 - 04:20pm: Impact of Compression and Encryption Methods for Software Architectures in Data-Oriented Mobile Applications
Md. Ashrafur Rahaman and Michael Bauer
The University of Western Ontario, Canada
04:20 - 04:40pm: Locally Complementary Multi-Path Routing in a MANET  
Toshiaki Kagoshima and Kazumasa Takami  
Graduate School of Engineering, Soka University, Japan

04:40 - 05:00pm: A Sequence Frequency Reuse Scheme for Coordinated Multi-Point Transmission in LTE-A  
Ying-Hong Wang, Chih-Hsiao Tsai, Liang-Chain Chen  
Tamkang University, Taiwan, ROC

05:00 - 05:20pm: A Comparative Study of Proactive and Reactive Geographical Routing Protocols for MANET  
Rob Hussey, Earl Huff, Zabih Shinwari, Vasil Hnatyshin  
Rowan University, Glassboro, New Jersey, USA

05:20 - 05:40pm: An Email-Based Performance Analysis of Routing Protocols in Mobile Ad Hoc Networks Using OPNET Modeler  
Michel Mbougni and Obeten O. Ekabua  
North West University, Mafikeng Campus, South Africa

05:40 - 06:00pm: Characterizing and Evaluation: Temporal properties of real and synthetic datasets for DTN  
Hemal Shah, Yogeshwar Kosta, Vikrant Patel  
Ganpat University, India; Marwadi Education Foundation, India

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS  
(Please see the lists at the beginning of this book)
SESSION 5-IPCV: (CONCURRENT SESSION WITH SESSIONS 6-IPCV & part of 8-IPCV) MEDICAL APPLICATIONS
Co-Chairs: Professor Hyo Jong Lee, Chonbuk National University, South Korea; Dr. Anitha Chennamaneni, Texas A & M University Central Texas, USA

July 24, 2013 (Wednesday); 08:00am - 09:40am
(LOCATION: Cohiba 6)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Efficacy of Gabor-Wavelet versus Statistical Features for Brain Tumor Classification in MRI: A Comparative Study
Nooshin Nabizadeh, Miroslav Kubat, Nigel John, Clinton Wright
University Of Miami, Coral Gables, Florida, USA

08:40 - 09:00am: Remote Respiratory Sensing with an Infrared Camera Using the Kinect Infrared Projector
Andrew Loblaw, John Nielsen, Michal Okoniewski, Mazhar Ali Lakhani
University of Calgary, Calgary, Canada

09:00 - 09:20am: Combining Anatomical Biomarkers With Neuropsychological Data For Multidimensional Classification Of Alzheimer's Disease
Florida International University, Miami, Florida, USA; Mount Sinai Medical Center, Miami Beach, Florida, USA

09:20 - 09:40am: An Efficient Model Based on Spatial Fuzzy Clustering and Region Growing for the Automated Detection of Masses in Mammograms
Hechmi Shili, Lotfi ben Romdhane, Bechir el Ayeb
MARS Research Group; University of Monastir, Tunisia; University of Sousse, Tunisia

SESSION 6-IPCV: (CONCURRENT SESSION WITH SESSION 5-IPCV) IMAGE RETRIEVAL AND IMAGE DATABASES
Co-Chairs: Dr. Aysegul Ucar, Firat University, Engineering Faculty, Mechatronics Engineering Department, Elazig, Turkey

July 24, 2013 (Wednesday); 08:00am - 09:20am
(LOCATION: Partagas 1)

08:00 - 08:20am: Performance Evaluation of Different Query Sets on Expanded Diagnosed Dataset Using Content Based Image Retrieval ...
Preeti Aggarwal, Renu Vig, H. K. Sardana
UIET, Panjab University, Chandigarh, India; CSIO, Chandigarh, India

08:20 - 08:40am: Clustered Microcalcification Detection Scheme for Mammographic Images
Bruno Matheus, Jarbas Neto, Homero Schiabel
University of Sao Paulo, Brazil
08:40 - 09:00am: Edge Based Shape Feature For Image Retrieval With Multiresolution Enhanced Orthogonal Polynomials Model
R. Krishnamoorthi and S. Sathiya Devi
Bharathidasan Institute of Technology, Anna University, India

09:00 - 09:20am: A Scalable Indexing Method for SIFT Features
Wei-Chih Hung, Yi-Leh Wu, Tsung-Da Ho, Kuan-Yuo Lin, Cheng-Yuan Tang
National Taiwan University of Science and Technology, Taiwan; Huafan University, Taiwan

SESSION 7-IPCV: (CONCURRENT SESSION WITH parts of SESSIONS 8-IPCV & 9-IPCV)
IMAGE RETRIEVAL AND IMAGE DATABASES
Co-Chairs: Dominik L. Michels, University of Bonn, Germany
July 24, 2013 (Wednesday); 09:40am - 12:20pm
(LOCATION: Cohiba 6)

09:40 - 10:00am: Topological Detection of Chessboard Pattern for Camera Calibration
Gustavo Teodoro Laureano and Maria Stela Veludo de Paiva
University of Sao Paulo-USP, Brazil

10:00 - 10:20am: Image Processing Workflow Middleware to Archive High Performance and Usability
Kenji Iwata, Yutaka Satoh, Isao Kojima
National Institute of Advanced Industrial Science and Technology (AIST), Japan

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-IPCV
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

O. Hand Detection in Depth Images Using Features of Depth Difference
Sung-Il Joo, Sun-Hee Weon, Ji-Man Hong, Hyung-Il Choi
SoongSil University, Seoul, Korea

O. Survey on Recognition of Navrasas—the Nine Moods in Indian Classical Dance Forms and Dramatic Acts Using Neural Network
Sandeep Ajabrao Awachar, P. V. Ingole, N. P. Jawalkar; India

O. Quantitative Assessment of Female Pattern Hair Loss
Pei-Kai Hung, Chun-You Liu, Chia-Yun Hsu, Chien-Wei Kung, Ren-Yeu Tsai, Sung-Jan Lin, Chung-Ming Chen
National Taiwan University, Taipei, Taiwan; Taipei Municipal Wan-Fang Hospital, Taipei Medical University, Taipei, Taiwan

O. The Design and Implementation of Distributed Pair Collaboration System for Supporting Graphic/Image Screen
Hyouwon Noh, Jinho Park, Youngchon Kim
Chonbuk University, Korea; Kyungnam University, Korea

O. An Adaptive and Fast Valley Emphasis Multilevel Otsu Thresholding Algorithm
Jianwu Long, Xuanjing Shen, Haipeng Chen, He Zhang
Jilin University, Changchun, P. R. China

O. ...

SESSION 7-IPCV: Continued ... IMAGE RETRIEVAL AND IMAGE DATABASES
(LOCATION: Cohiba 6)

11:00 - 11:20am: Super-Resolution Using Combination of Wavelet Transform and Interpolation Based Method
Tabinda Sarwar and Naveed Khattak
Military College of Signals, NUST, Pakistan

11:20 - 11:40am: Efficient Edge-Forming Procedures for Real-Time Image Interpolation
Jamaris Moore, Yielin Um, Seongjai Kim
Mississippi State University, Mississippi, USA; Tabor Academy, Marion, MA, USA
11:40 - 12:00pm: Automatic Navigation Through a Single 2D Image Using Vanishing Point
Geetha Kiran A and Murali S
Malnad College of Engineering, Karnataka, India;
Maharaja Institute of Technology, Mysore, Karnataka, India

12:00 - 12:20pm: Implementation of Sobel, Prewitt, Roberts Edge Detection on FPGA
F. Ferhat Alim, L. Ait Mohamed, O. Kerdjidj, K. Messaoudi, A. Boudjelal
CDTA (Centre for Development of Advanced Technologies), Algeria

SESSION 8-IPCV: (CONCURRENT SESSION WITH SESSION 7-IPCV)
VIDEO PROCESSING + MOTION, ANALYSIS & APPLICATIONS + RENDERING + ANIMATION
Co-Chairs: Dr. Tina Johnson,
Midwestern State University, Wichita Falls, Texas, USA;
Dr. Damian Valles, Montana Tech of U of M, USA
July 24, 2013 (Wednesday); 09:20am - 11:40am
(LOCATION: Partagas 1)

09:20 - 09:40am: Video Object Segmentation Using Spatio-Temporal Information and Marked-Watershed Operation
Qingqing Fu and Mehmet Celenk
Yangtze University, Jingzhou, Hubei, P. R. China;
Ohio University, Athens, Ohio, USA

09:40 - 10:00am: Improved Strategy for TZSearch Algorithm
Shan Wang, Siqi Sun, Wenfeng Shen, Weimin Xu, Yanheng Zheng
Shanghai University, P. R. China

10:00 - 10:20am: View Synthesis Based on Depth Information and Graph Cuts for 3DTV
Anh Tu Tran and Koichi Harada
Graduate School of Engineering, Hiroshima University, Hiroshima, Japan

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-IPCV
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

SESSION 8-IPCV: Continued ... VIDEO PROCESSING + MOTION, ANALYSIS & APPLICATIONS
(LOCATION: Partagas 1)

11:00 - 11:20am: Mathematical Recognition Problems of Particle Flow Characteristics by Video Sequence Images
Alexander P. Buslaev, Andrew V. Provorov, Marina V. Yashina
Moscow State Automobile and Road Technical University, Russia;
Moscow Technical University of Communications & Informatics, Russia

11:20 - 11:40am: A Decomposition Method For Non-Rigid Structure From Motion With Orthographic Cameras
X. B. Zhang, A. W. K. Tang, Y. S. Hung
The University of Hong Kong, Hong Kong

SESSION 9-IPCV: (CONCURRENT SESSION WITH parts of SESSIONS 7-IPCV & 10-IPCV)
FACE, GAZE, EXPRESSION RECOGNITION, DETECTION, TRACKING, + NOVEL IMAGE ANALYSIS ALGORITHMS + HPC
Co-Chairs: Dr. Rabia Jafri, King Saud University, Saudi Arabia
July 24, 2013 (Wednesday); 11:40am - 04:00pm
(LOCATION: Partagas 1)

11:40 - 12:00pm: Pose-Invariant Face Recognition in Hyperspectral Images
Han Wang and Glenn Healey
University of California, Irvine, California, USA
12:00 – 12:20pm: Predicting Gaze Direction from Head Pose Yaw and Pitch
David O. Johnson and Raymond H. Cuijpers
Human-Technology Interaction, Eindhoven University of Technology, Eindhoven, Netherlands

12:20 – 01:20pm: LUNCH (On Your Own)

01:20 – 01:40pm: Automatic Method of Gender Dependent Age-Group Classification
Sae Hwang and Emre Celebi
University of Illinois at Springfield, Illinois, USA; Louisiana State University in Shreveport, LA, USA

01:40 – 02:00pm: Ensemble Of Patterns Of Oriented Edge Magnitudes Descriptors For Face Recognition
Loris Nanni, Alessandra Lumini, Sheryl Brahnam, Mauro Migliardi
DEI, University of Padua, Padua, Italy; DISI, University di Bologna, Cesena, Italy; Missouri State University, Springfield, Missouri, USA

02:00 – 02:20pm: An Indexing Method for Efficient Model-Based Search
Pat Jangyodsuk and Vassilis Athitsos
University of Texas at Arlington, Texas, USA

02:20 – 02:40pm: AAM-based Facial Image Beautification
Alexander Limonov, Dowan Kim, Jinsung Lee, Kilsoo Jung, Jongsul Min
DMC R&D Center, Multimedia Research Team, Samsung Electronics, Suwon, Republic of Korea

02:40 – 03:00pm: Enhancing Faces Recognition by Image Feature Weights Learning Approach
Wei-Li Fang, Ying-Kuei Yang, Jung-Kuei Pan
National Taiwan University of Science and Technology, Taipei, Taiwan

03:00 – 03:20pm: Image Analysis For Fast Characterization of Uniformity Using Automated Image Capture
Sargis Panosyan, Amar Raheja, D. Still, A. Meyer
California State Polytechnic University, Pomona, California, USA; Ransom Seed Laboratory, California, USA

03:20 – 03:40pm: Minimal Haar Wavelet Transform for FPGA
Jordan Miller, Huda AlGhaib, Reza Adhami
The University of Alabama in Huntsville, Alabama, USA

03:40 – 04:00pm: Pseudo 2D Hidden Markov Model Based Face Recognition System Using Singular Values Decomposition Coefficients
Mukundhan Srinivasan and Nivas Ravichandran
Alpha College of Engineering, Chennai, India; Jeppiaar Engineering College, Chennai, India

SESSION 10-IPCV: (CONCURRENT SESSION WITH parts of SESSIONS 9-IPCV & 11-IPCV)
NOVEL IMAGING APPLICATIONS AND ALGORITHMS
Co-Chairs: Prof. Vladimir Volkov, The Bonch-Bruevich State University of Telecommunications, Saint-Petersburg, Russia
July 24, 2013 (Wednesday); 01:20pm – 05:40pm
(LOCATION: Cohiba 6)

01:20 – 01:40pm: Object Selection by Grouping of Straight Edge Segments in Digital Images
Vladimir Volkov, Rudolf Germer, Alexandr Oneshko, Denis Oralov
The Bonch-Bruevich State University of Telecommunications, Russia; ITP-, TU- und Hochschule fur Technik und Wirtschaft, Berlin, Germany

01:40 – 02:00pm: LURID: A Heuristically Based System for Automated Image Safety Determination
Daniel S. Rosen
Director, Imaging Technology, GumGum Inc., Santa Monica, California, USA
02:00 - 02:20pm: Indoor Navigation Based On Fiducial Markers Of Opportunity
Mazhar Ali Lakhani, John Nielsen, Gerard Lachapelle
Position Location and Navigation (PLAN) Group, University of Calgary, Calgary, Canada

02:20 - 02:40pm: Vision-Based Localization of Skewed UPC Barcodes on Smartphones
Vladimir Kulyukin and Tanwir Zaman
Utah State University, Logan, Utah, USA

02:40 - 03:00pm: Automated Change Detection of Multi-level Icebergs Near Mertz Glacier Region Using Feature Vector Matching
Zhen Liu, Ziying Zhao, Yida Fan
Beijing Normal University; National Institute of Education Science; National Disaster Reduction Center of China, P. R. China

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: A Multi-Stage Approach for Automatic Classification of Environmental Microorganisms
Chen Li, Kimiaki Shirahama, Joanna Czajkowska, Marcin Grzegorzek, Fangshu Ma, Beihai Zhou
University of Siegen, Germany

03:40 - 04:00pm: Robust Textural Features For Image Classification Based On LBP Image
Han-xu You and Jie Zhu
Shanghai Jiao Tong University, Shanghai, P. R. China

04:00 - 04:20pm: Conditional-Sorting Local Binary Pattern Based on Gait Energy Image for Human Identification
Chih-Hsien Hsia, Jen-Shiun Chiang, Yi-Jhe Dai, Tien-An Lin
Tamkang University, Taiwan; National Taiwan University of Science and Technology, Taiwan

04:20 - 04:40pm: Traffic Sign Recognition Using Multi-Modal Representation and Multi-Object Tracking
Zixing Cai and Mingqin Gu
Central South University, P. R. China

04:40 - 05:00pm: Iris Texture Feature Extraction with Orthogonal Polynomials
R. Krishnamoorthy, G. Annupoorani, Anil K. Kaushik
Bharathidasan Institute of Technology, Anna University, India; Ministry of Communication and Information Technology, India

05:00 - 05:20pm: An Embedded Pointing System For Lecture Room Installing Multiple Screen
Toshiaki Ukai, Takuro Kamamoto, Shinji Fukuma, Hideaki Okada, and Shin-ichiro Mori
University of Fukui, Japan

05:20 - 05:40pm: Multi-Spectra Artificial Compound Eyes, Design, Fabrication and Applications
Yupei Yao and Ruxu Du
The Chinese University of Hong Kong, Hong Kong, P. R. China
SESSION 11-IPCV:  (CONCURRENT SESSION WITH part of SESSION 10-IPCV)
TOPICS IN IMAGE PROCESSING, COMPUTER VISION, & PATTERN RECOGNITION:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Kendy Hall,
Intelligence & Information Systems, Raytheon, Colorado, USA;
Dr. Dasari Haritha,
Jawaharlal Nehru Technological University Kakinada, India
July 24, 2013 (Wednesday); 04:00pm - 05:20pm (at the latest)
(LOCATION: Partagas 1)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

0. A Practical TDMA Protocol for Underwater Acoustic Networks Based on Relative Clock
   Jiarong Zhang, Gang Qiao, Can Wang
   National Laboratory of Underwater Acoustic Technology, Harbin Engineering University, P. R. China

0. Onboard Hover Control of a Quadrotor using Template Matching and Optic Flow
   Ping Li, Matthew Garratt, Andrew Lambert, Mark Pickering, James Mitchell
   School of Engineering and Information Technology, Australian Defence Force Academy, Canberra, Australia

0. Cockpit Noise Enhancement For Aircraft Type Recognition In Short-Wave Speech Communication
   Donghu Nie and Xueyao Li
   Harbin Engineering University, Harbin City, Heilongjiang, P. R. China

0. MRI Abdominal Organ Tissue Identification Using Statistical Distance in Color Space
   Arend Castelein, Terrance Weeden, Xiuping Tao, H. Keith Brown, Yong Wei
   University of North Georgia, Georgia, USA; Department of Clinical Anatomy,
   Philadelphia College of Osteopathic Medicine-Georgia, Georgia, USA;
   Department of Chemistry, Winston Salem State University, Winston Salem, North Carolina, USA

0. An Endeavour to Detect Persons Using Stereo Cues
   Rim Trabelsi and Fethi Smach
   IResCoMath Unit, National Engineering School of Gabes, University of Gabes,
   Tunisia; ActivNetworks, Couttaboeuf, France

06:00 - 09:00pm:  TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
PDPTA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Parallel and Distributed Processing Techniques and Applications

SESSION 6-PDPTA: PARALLEL AND DISTRIBUTED ALGORITHMS AND APPLICATIONS
Co-Chairs: Dr. Hans-Peter Bischof, Rochester Institute of Technology, New York, USA; Dr. Abdus Samad, Aligarh Muslim University, India
July 24, 2013 (Wednesday); 08:00am - 10:20am
(LOCATION: Cohiba 10)

08:00 - 08:20am: Model Checking Prioritized Token-Based Mutual Exclusion Algorithms
Mitchell L. Neilsen
Kansas State University, Manhattan, Kansas, USA

08:20 - 08:40am: Hadoop-Collaborative Caching in Real Time HDFS
Meenakshi Shrivastava and Hans-Peter Bischof
Rochester Institute of Technology, Rochester, New York, USA

08:40 - 09:00am: Parallel Algorithms for Hybrid Multi-core CPU-GPU Implementations of Component Labelling in Critical Phase Models
K. A. Hawick and D. P. Playne
Massey University, Auckland, New Zealand

09:00 - 09:20am: Parallel Asynchronous Modelization and Execution of Cholesky Algorithm using Petri Nets
Wolfmann Gustavo and De Giusti Armando
Universidad Nacional de Cordoba, Argentina;
Universidad Nacional de La Plata, Argentina

09:20 - 09:40am: Parallel Implementation of GRaph Aligner (GRAAL) Algorithm for Network Alignment
Si Li, Shengai Jin, Jonathan Z. Sun, Chaoyang Zhang
University of Southern Mississippi, Hattiesburg, Mississippi, USA

09:40 - 10:00am: Automatic Run-time Mapping of Polyhedral Computations to Heterogeneous Devices with Memory-size Restrictions
Yuri Torres, Arturo Gonzalez-Escribano, Diego R. Llanos
Universidad de Valladolid, Spain

10:00 - 10:20am: FREE SLOT

10:20 - 11:00am: POSTER/DISCUSSION SESSION B-PDPTA
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

O. Analyze The Effect Of Contextual Based Fuzzy MRF Models In Satellite Images
Rakesh Dwivedi, S. K. Ghosh, Anil Kumar
Indian Institute of Technology, Roorkee, India;
Indian Institute of Remote Sensing, Dehradun, India

O. Practical Simulatable Adaptive Oblivious Transfer Protocol
Jing Qin, Huawei Zhao, Jiankun Hu, Hongwei Duan
University of New South Wales, Canberra, Australia; Shandong University, P. R. China; Shandong University of Finance & Economics, P. R. China
O. Key Management Schemes Roadmap for Body Sensor Networks Based on Physiological Signals
Huawei Zhao, Jing Qin, Minglei Shu, Jiankun Hu
University of New South Wales, Canberra, Australia; Shandong University, P. R. China; Shandong University of Finance & Economics, P. R. China

O. A Simulation Platform for SRAM-TCAM Based Memory Architectures
Oluleye Olorode and Mehrdad Nourani
University of Texas at Dallas, Texas, USA

SESSION 7-PDPTA: GRID + CLOUD COMPUTING AND SUPPORTING TOOLS + APPLICATIONS
Co-Chairs: Prof. Aleardo Manacero, Paulista State University, Brazil; Ms. Dana Al Tehmazi, MITCS, Ahlia University, Manama, Bahrain
July 24, 2013 (Wednesday); 11:00am - 12:00noon
(LOCATION: Cohiba 10)

11:00 - 11:20am: Cost-effective Cloud Services for HPC in the Cloud: The IaaS or The Haas?
Ifeanyi P. Egwutuoha, Sheping Chen, David Levy, Rafael Calvo
University of Sydney, Australia; Information Engineering Laboratory, CSIRO ICT Centre, Australia

11:20 - 11:40am: A Chord-based Architecture for Efficient Dynamic Service Provisioning over Distributed Resources
Dibyanshu Jaiswal, Sujoy Mistry, Arijit Mukherjee, Nandini Mukherjee
Jadavpur University, India; Innovation Labs, Tata Consultancy Services, Kolkata, India

11:40 - 12:00pm: Open Source Cloud Computing: Characteristics and an Overview
Naylor G. Bachiega, Henrique P. Martins, Roberta Spolon, Marcos A. Cavenaghi, Renata S. Lobato, and Aleardo Manacero
Paulista State University - UNESP - Bauru, Brazil

SESSION 8-PDPTA: COMMUNICATION SYSTEMS + NETWORKS & INTERCONNECTION NETWORKS + P2P NETWORKS, AD-HOC NETWORKS + SENSOR NETWORKS & APPLICATIONS
Co-Chairs: Dr. Antoine Bossard, Advanced Institute of Industrial Technology, Tokyo Metropolitan University, Japan
Hai Nguyen Hoang, Universitat Autonoma de Barcelona, Spain
July 24, 2013 (Wednesday); 12:00noon - 06:00pm
(LOCATION: Cohiba 10)

12:00 - 12:20pm: A Stochastic Fault-tolerant Routing Algorithm in Hyper-star Graphs
Yo Nishiyama, Yuki Hirai, Keiichi Kaneko
Tokyo University of Agriculture and Technology, Japan

12:20 - 12:40pm: Parallel Routing In Exchanged Hypercubes
Tsung-Han Tsai, Y-Chuang Chen, Jimmy J.M. Tan
National Chiao Tung University, Hsinchu, Taiwan, ROC; Minghsin University of Science and Technology, Taiwan, ROC

12:40 - 01:40pm: LUNCH (On Your Own)

01:40 - 02:00pm: Swarm Architecture Toward P2P VoD without Playback Suspension
Yasuaki Yuji and Satoshi Fujita
Hiroshima University, Japan

02:00 - 02:20pm: MCM Based Clustering Algorithm for OSN
Hwanghyuk Lee, Sang-Eon Park, Young-Jun Chung
Kangwon National University, Korea; Salisbury University, Maryland, USA
02:20 - 02:40pm: A Point-Based Incentive Scheme for P2P Reputation Management Systems
Takuya Nishikawa and Satoshi Fujita
Hiroshima University, Japan

02:40 - 03:00pm: Decycling Hierarchical Cubic Networks
Antoine Bossard
Advanced Institute of Industrial Technology, Tokyo Metropolitan University, Tokyo, Japan

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Heuristics for Reconfigurable Three Dimensional Free Space Optical Networks
Johan Kosumo, Danny Luong, C.S. James Wong, G. Young
California State Polytechnic University, Pomona, California, USA; San Francisco State University, San Francisco, California, USA

03:40 - 04:00pm: GPU-based Multi-Stream Application Layer Analyzer on Service oriented Router
Kazumasa Ikeuchi, Janaka Wijekoon, Shinichi Ishida and Hiroaki Nishi Keio University, Japan

04:00 - 04:20pm: Minimum Spanning Tree For Energy Saving in Interconnection Networks
Hai Nguyen, Daniel Franco, Emilio Luque
Universitat Autonoma de Barcelona, Spain

04:20 - 04:40pm: A Methodology to Characterize the Parallel I/O of the Message-passing Scientific Applications
Sandra Mendez, Dolores Rexachs, Emilio Luque
Computer Architecture and Operating Systems Department (CAOS), Universitat Autonoma de Barcelona, Barcelona, Spain

04:40 - 05:00pm: A Proposal for an Efficient Integral Multi-Agent Sensor Network Simulation Architecture Design
A. Filippou and D. A. Karras
University of Bolton, UK; Chalkis Institute of Technology, Greece

05:00 - 05:20pm: History-Aware Adaptive Routing Algorithm For Energy Saving in Interconnection Networks
Hai Nguyen, Gonzalo Zarza, Daniel Franco, Emilio Luque
Universitat Autonoma de Barcelona, Spain

Gregorio Hinojos, Curtis Tade, Song Park, Dale Shires, David Bruno
U.S. Army Research Laboratory, Maryland, USA

05:40 - 06:00pm: Comparison of NoC Routing Algorithms Using Formal Methods
Zeinab Sharifi, Siamak Mohammadi, Marjan Sirjani
University of Tehran, Tehran, Iran; Reykjavik University, Reykjavik, Iceland

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SAM'13 CONFERENCE SCHEDULE

The 2013 International Conference on Security and Management

SESSION 8-SAM: COMPUTER AND NETWORK SECURITY
Chair: Youn Chan Jung, Catholic University of Korea, Korea
July 24, 2013 (Wednesday); 08:00am - 09:20am
(LOCATION: Cohiba 11)

08:00 - 08:20am: Mobile Root Exploit Detection Based on System Events Extracted from Android Platform
You Joung Ham, Won-Bin Choi, Hyung-Woo Lee
School of Computer Engineering, Hanshin University, Republic of Korea

08:20 - 08:40am: ASNM: Advanced Security Network Metrics for Attack Vector Description
Homoliak I., Barabas M., Chmelar P., Drozd M., Hanacek, P.
Brno University of Technology, Czech Republic

08:40 - 09:00am: Detecting Distributed SQL Injection Attacks in a Eucalyptus Cloud Environment
Alan Kebert, Bikramjit Banerjee, Glover George, Juan Solano, and Wanda Solano
University of Southern Mississippi, Hattiesburg, Mississippi, USA; National Center for Critical Information Processing and Storage, National Aeronautics and Space Administration (NASA), Stennis Space Center, Mississippi, USA

09:00 - 09:20am: A High-Throughput and Low-Complexity Secure Linear Network Coding Protocol
Majid Adeli and Huaping Liu
Oregon State University, Corvallis, Oregon, USA

SESSION 9-SAM: SECURITY APPLICATIONS
Co-Chairs: Prof. Nizar Al Holou, University of Detroit Mercy, USA, and Dr. Milica Barjaktarovic, Hawaii Pacific University, Hawaii, USA
July 24, 2013 (Wednesday); 09:20am - 10:40am
(LOCATION: Cohiba 11)

09:20 - 09:40am: A Self-Protecting Security Framework for CDA Documents
George Hsieh and Ebelechukwu Nwafor
Norfolk State University, Norfolk, Virginia, USA

09:40 - 10:00am: Multi-Applications Secure Mobile Platform
Hao Zhao and Sead Muftic
Royal Institute of Technology (KTH), Stockholm, Sweden

10:00 - 10:20am: Social Networks Steganography Using Unions of Lucas Sequences
Nikolaos G. Aroukatos, Kostas Manes, Kostas Rigos
Department of Informatics, University of Piraeus, Greece

10:20 - 10:40am: Inter-Cloud Trust Model Security
Dana Al-Tehmazi
Department of Computer Science, Ahlia University, Bahrain

10:40 - 11:00am: BREAK
SESSION 10-SAM: SECURITY MANAGEMENT + SECURITY EDUCATION + HARDWARE SECURITY + SECURITY APPLICATIONS  
Chair: Dr. Andrea Huszti, University of Debrecen, Hungary  
July 24, 2013 (Wednesday); 11:00am - 12:20pm  
(LOCATION: Cohiba 11)

11:00 - 11:20am: Securing the Bolts Before the Horse has Bolted: A New Perspective on Managing Collaborative Assurance  
Simon Reay Atkinson, Seyedamir Tavakolitabaezavareh, David Walker, Li Liu, Liaquat Hossain  
Complex Civil Systems Research Group, Faculty of Engineering and IT, University of Sydney, Australia

11:20 - 11:40am: Anonymous Retrieval of k-NN POI in Location Based Services (LBS)  
Charles Asanya and Ratan Guha  
University of Central Florida, Orlando, Florida, USA

11:40 - 12:00pm: Cyber-security Defense in Large-scale M2M System Actual Issues and Proposed Solutions  
Mohammad Fal Sadikin  
DAI-Labor, Germany

12:00 - 12:20pm: Multi-Vendor PayWord with Payment Approval  
Andrea Huszti  
Faculty of Informatics, University of Debrecen, Debrecen, Hungary

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 11-SAM: INFORMATION ASSURANCE  
Chair: Dr. Esmiralda Moradian, Stockholm University, Sweden  
July 24, 2013 (Wednesday); 01:20pm - 04:00pm  
(LOCATION: Cohiba 11)

01:20 - 01:40pm: Java Design Pattern Obfuscation  
Praneeth Kumar Gone and Mark Stamp  
San Jose State University, California, USA

01:40 - 02:00pm: A Synthetic Solution Scheme for SOA Security Assurance  
Bing Xu, Tianbo Lu, Wanjian Han, Xiaoyan Zhang, Lingling Zhao  
Beijing University of Posts & Telecommunications Beijing, P. R. China

02:00 - 02:20pm: Mandatory Access Control for Web Applications and Workflows  
Maxime Fonda, Christian Toinard, Stephane Moinard  
Ecole Nationale Superieure, d’Ingenieurs de Bourges, Bourges, France; QualNet, Vasselay, France

02:20 - 02:40pm: Decision Support for Risk Assessment of IT-Security Risks  
Esmiralda Moradian and Maria Kalinina  
Stockholm University, Kista, Sweden

02:40 - 03:00pm: Creating Stronger Yet Easily Pronounceable Passwords  
Milica Barjaktarovic  
Hawaii Pacific University, Honolulu, Hawaii, USA

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: A Flexible Role-Based Delegation Model with Dynamic Delegation Role Structure Approach  
Zidong Liu, Weiqing Sun, Mansoor Alam  
University of Toledo, Toledo, Ohio, USA
03:40 - 04:00pm: A User-Centric Privacy-Aware Protection System
Li Yang and Travis Tynes
Department of Computer Science, University of West Georgia,
Carrollton, Georgia, USA

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the beginning of this book)
SESSION 7-SERP: SOFTWARE ARCHITECTURES & DEVELOPMENT PROCESSES + DESIGN PATTERNS + REQUIREMENTS + MIDDLEWARE + MODELLING & ARCH. DESCRIPTION LANGUAGES
Co-Chairs: Dr. Paula Laurent, DePaul University, Chicago, Illinois, USA; Mehdi Bahrami, University of California, Merced, USA; Prof. Rashmi Phalnikar, MIT College Of Engineering, Pune, India
July 24, 2013 (Wednesday); 08:00am - 10:20am
(LOCATION: Montecristo 1)

08:00 - 08:20am: New Paradigms for Software Application Development: Software architectures and component-based development
Sergio Villarreal, Guillermo Villasana, Juan Carlos Lavariega, and Guillermo Jimenez
Instituto Tecnologico y de Estudios Superiores de Monterrey, campus Monterrey, Mexico

08:20 - 08:40am: Applying Design Patterns in Game Programming
Junfeng Qu, Yinglei Song, Yong Wei
Clayton State University, Georgia, USA; Jiangshu University of Science and Technology, P. R. China; North Georgia State University, USA

08:40 - 09:00am: Enterprise Architecture: Building Information Technology Based on a Human Behavior Oriented Approach to Enterprise Architecture
Dominic M. Mezzanotte, Sr. and Josh Dehlinger
Towson University, USA

09:00 - 09:20am: Systems on Abstract Network
Kazutaka Nakamura, Kiyofumi Tanaka, Yasushi Hibino
Japan Advanced Institute of Science and Technology, Ishikawa, Japan

09:20 - 09:40am: Using the Indicator of Productivity and Function Point to Improve the Software Development Process
Eduardo A. Oliveira and Ricardo Choren
Military Engineering Institute - IME, Brazil

09:40 - 10:00am: A Quantitative Approach to the Evolution of Domain-Specific Modeling Languages
Kiyotaka Ota, Kenji Hisazumi, Weiqiang Kong, Tsuneo Nakanishi, and Akira Fukuda
Kyushu University, Fukuoka City, Japan

10:00 - 10:20am: Scaffolding the Software Design Process: Fine-Grained Specifications from Design Tactics
Abdel Ejnioui and Carlos E. Otero
University of South Florida, Tampa, Florida, USA
10:20 - 11:00am: POSTER/DISCUSSION SESSION B-SERP-FCS
July 24, 2013 (Wednesday)
(LOCATION: Cohiba 8-9)

O. Towards Cycle-Accurate Performance Predictions for Real-Time Embedded Systems
Konstantinos Triantafyllidis, Egor Bondarev, Peter H.N. de With
Eindhoven University of Technology, Eindhoven, The Netherlands

O. A Study on Traceability for Model-based Testing of Automotive Embedded System
Kabsu Han, Insick Son, Jeonghun Cho
Kyungpook National University, Daegu, Republic of Korea;
Korea Automotive Technology Institute, Daegu, Republic of Korea

O. ...

SESSION 8-SERP: SOFTWARE ENGINEERING & MANAGEMENT + SYSTEMS MAINTENANCE + CODE REUSE
+ MODEL-DRIVEN SYSTEMS + RELEASE PLANNING + SOFTWARE QUALITY
Co-Chairs: Dr. Chao Zhao, Cameron University, USA;
Prof. Obeten O. Ekabua, North-West University, South Africa
Mehdi Bahrami, University of California, Merced, USA
July 24, 2013 (Wednesday); 11:00am - 12:40pm
(LOCATION: Montecristo 1)

11:00 - 11:20am: On-Demand Source Code Generation and Scheduling Optimised Parallel Applications on Heterogeneous Platforms
K. A. Hawick and D. P. Playne
Massey University, Auckland, New Zealand

Bassey E. Isong
University of Venda, Thohoyandou, South Africa

11:40 - 12:00pm: Towards a Software Domain Metric Based on Semantic Web Techniques
Francisco-Edgar Castillo-Barrera, Hector-Gerardo Perez-Gonzalez, and S. Masoud Sadjadi
Universidad Autonoma de San Luis Potosi, Mexico;
Florida International University (FIU), Miami, USA

12:00 - 12:20pm: Test Case Prioritization Related To Code Quality
Savas Ozturk, Nurhan Yagci, Mehmet Aktas, Mehmet Ozbek, Furkan Paligu Yildiz Technical University, Turkey;
Tubitak Bilgem, Turkey

12:20 - 12:40pm: A Case Study in the Model-Driven Development of CorkBoard - a WebApp for Collaborative Work
Andrew Harnage, Doug Flagg, Amber Whittemore, Devon M. Simmonds
University of North Carolina at Wilmington, North Carolina, USA

12:40 - 02:00pm: LUNCH (On Your Own)

02:00 - 02:20pm: FREE SLOT

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: FREE SLOT
SESSION 9-FCS: COMPRESSION METHODS + HPC + APPROXIMATION ALGORITHMS + N-P HARD PROBLEMS + FORMAL VERIFICATION + AUTOMATA + GRAMMAR RULES
Co-Chairs: Prof. K. Subramani, West Virginia University, USA
July 24, 2013 (Wednesday); 03:00pm - 06:00pm
(LOCATION: Montecristo 1)

03:00 - 03:20pm: Improving Compression Performance with a Star Encoding
Front End: A Linguistic Comparison
Ebru Celikel Cankaya and Omar Darwish
University of Texas at Dallas, Texas, Richardson, Texas, USA

03:20 - 03:40pm: Stencil and Lattice Structures for Field Equation Model Simulations on GPUs
D. P. Playne and K. A. Hawick
Massey University, Auckland, New Zealand

03:40 - 04:00pm: Optimising Computations for Evaluating Ising and Potts Model Partition Functions by Exact Enumeration
K. A. Hawick and D. P. Playne
Massey University, Auckland, New Zealand

04:00 - 04:20pm: A Functional Approach To Finding Answer Sets
Bryant Nelson, Josh Archer, Nelson Rushton
Texas Tech University, Lubbock, Texas, USA

04:20 - 04:40pm: Lag-based Load Balancing for Linux-based Multicore Systems
Dongwon Ok, Byeonghun Song, Hyunmin Yoon, Peng Wu, Jaesoo Lee, Jungkeun Park, and Minsoo Ryu
Hanyang University, Korea; Konkuk University, Korea

04:40 - 05:00pm: Formalization Description of Huffman Coding Trees by Using Mizar
Takaya Ido, Hiroyuki Okazaki, Yasunari Shidama
Shinshu University, Wakasato Nagano-city, Nagano, Japan

05:00 - 05:20pm: Extended Timed Alternating Finite Automata: Revisited
Aziz Fellah
University of New Brunswick, Saint John, NB, Canada

05:20 - 05:40pm: Formalization of Binary Fields and N-dimensional Binary Vector Spaces Using the Mizar Proof Checker
Kenichi Arai and Hiroyuki Okazaki
Tokyo University of Science, Japan; Shinshu University, Japan

05:40 - 06:00pm: Automated Semantics Treatment of Sequence Diagram Defining Grammar Rules
Fahad Alhumaidan and Nazir Ahmad Zafar
King Faisal University, Hofuf, Saudi Arabia

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS
(Please see the lists at the begining of this book)
## BIOCOMP'13 CONFERENCE SCHEDULE

### The 2013 International Conference on Bioinformatics & Computational Biology

#### SESSION 8-BIOCOMP: COMPUTATIONAL BIOLOGY & MEDICAL APPLICATIONS, TOOLS & SYSTEMS + HEALTH INFORMATICS & RELATED ISSUES

Co-Chairs: Dr. Deok Hee Nam, Engineering and Computing Science, Wilberforce University, Wilberforce, Ohio, USA  
Dr. Fabian Garcia Nocetti, Universidad Nacional Autonoma de Mexico, Mexico

**July 25, 2013 (Thursday); 08:00am - 10:20am**  
(LOCATION: Montecristo 3)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:00 - 08:20am</td>
<td>Classification of Vocal Fold Diseases Using RASTA-PLP</td>
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<td>Mansour M. Alsulaiman, Ghulam Muhammad, Zulfiqar Ali</td>
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<td>Speech Processing Group, College of Computer and Information Sciences, King Saud University,</td>
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<td>Riyadh, Saudi Arabia</td>
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<td>08:20 - 08:40am</td>
<td>M.M.R SYSTEM - Mass-Micro-Reconstruction</td>
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<td>Boucherit Laboratory, Oran, Algeria</td>
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<td>08:40 - 09:00am</td>
<td>Computational Drug Screening in the Cloud Using HierVLS/PSVLS</td>
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<td>Thomas Sitter, Darryl L. Willick, Wely B. Floriano</td>
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<td>Lakehead University, Thunder Bay, ON, Canada</td>
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<td>SciReal, LLC, Grand Marais, MN, USA;</td>
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<td>Thunder Bay Regional Research Institute, Thunder Bay ON, Canada</td>
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<td>09:00 - 09:20am</td>
<td>A Novel Mathematical Model of Targeted Cancer Therapy Along p53</td>
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<td>Prem Talwai</td>
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<td>American River College, Sacramento, California, USA</td>
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<td>09:20 - 09:40am</td>
<td>Reconstruction of Dynamic Gene Regulatory Networks for Cell</td>
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<td>Differentiation</td>
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<td>by Separation of Time-course Data</td>
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<td>Tomoyoshi Nakayama, Hiromi Daiyasu, Shigeto Seno, Yoichi Takenaka, and Hideo Matsuda</td>
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<td>Department of Bioinformatic Engineering, Graduate School of Information</td>
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<td>Science and Technology, Osaka University, Japan</td>
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<td>09:40 - 10:00am</td>
<td>The Relationship Between Oxidant-antioxidant Status and Bronchial</td>
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<td>Obstructive Parameters in Patients With COPD</td>
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<td>Kh. Solongo, N. Oyun-Erdene, J. Narantsenseg, M. Ambaga</td>
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<td>First National Central Hospital, Respiratory Department, Mongolia;</td>
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<td>National University of Mongolia, Mongolia</td>
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<td>10:00 - 10:20am</td>
<td>Identification of Genes by E. coli Regulatory Protein Using Neurofuzzy</td>
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<td>System and Multivariate Analysis</td>
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<td>Deok Hee Nam</td>
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<td>Wilberforce University, Wilberforce, Ohio, USA</td>
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<td>10:20 - 10:40am</td>
<td>BREAK</td>
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</tbody>
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SESSION 9-BIOCOMP: TOPICS IN COMPUTATIONAL BIOLOGY & BIOINFORMATICS:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Prof. Ka-Lok Ng, Asia University, Taiwan
Dr. Shaukat Iqbal Malik, NUST University, Islamabad, Pakistan
July 25, 2013 (Thursday); 10:40am - 12:40pm (at the latest)
(LOCATION: Montecristo 3)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non-registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. Diabetes Differential Diagnosis Application System - a Case Study
Shweta Sheel, Veronica Heredia, Aman Kumar
Gauhati Medical College Hospital, Assam, India; Blossom Peds Care, San Jose, California, USA; BCL Technologies, San Jose, California, USA

O. 3D Models of Computer Aided Drug Design - Protein modelling with incorporation of a drug
Arsala Jamali and Bushra Noman Saeed
BioSciences, Department of CS, SZABIST, Karachi, Pakistan

O. On the Optimization of Non-Dense Metabolic Networks in Non-Equilibrium State Utilizing 2D-Lattice Simulation
Erfan Khaji and Mahsa Mortazavi
University of Goteborg, Sweden;
University of Colorado, Denver, Colorado, USA

O. Extracting Fetal ECG from a Single Maternal Abdominal Record
Mohammad Ayat, Khaled Assaleh, Hasan Al-Nashash
American University of Sharjah, UAE;
Victoria University of Wellington, New Zealand;

O. A Method of Sequence Analysis for High-Throughput Sequencer Data Based on Shifted Short Read Clustering
Kensuke Suzuki, Daisuke Ueta, Shigeto Seno, Yoichi Takenaka, Hideo Matsuda
Graduate School of Information Sci. & Technology, Osaka University, Japan

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 10-BIOCOMP: TOPICS IN COMPUTATIONAL BIOLOGY & BIOINFORMATICS:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Bharat Rawal, Shaw University, Raleigh, North Carolina, USA
July 25, 2013 (Thursday); 01:20pm - 03:00pm
(LOCATION: Montecristo 3)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non-registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. HapMaker: Synthetic Haplotype Generator
Nozomu Okuda, Paul Bodily, Jared Price, Mark Clement, Quinn Snell
Brigham Young University, Provo, Utah, USA

O. Customized Biomedical Informatics
Abhishek Narain Singh
Computer Science Department, Virginia Tech, Virginia, USA

O. Gene Set Enrichment Analysis for a Long Time Series Gene Expression Profile
Yuta Okuma, Shigeto Seno, Yoichi Takenaka, Hideo Matsuda
Graduate School of Information Science & Technology, Osaka University, Japan
O. Species Survivability and Altitude Dependence in a Lotka-Volterra Predator-Prey Spatial-Agent Based System
D. Q. Quach, J. M. Willemse, V. Du Preez, K. A. Hawick
Massey University, Auckland, New Zealand

O. Bioinformatics Component in Personalized Medicine
Abhishek Narain Singh
Computer Science Department, Virginia Tech, Virginia, USA

O. The Strategies and Approaches to Develop Electronic Health Records in Taiwan
Chien-Chen Ni, Min-Huei Hsu, Pei-Tun Yang, Yu-Ting Yeh, Chien-Tsai Liu
Graduate Institute of Biomedical Informatics, Taipei Medical University; Medical Informatics Center, Department of Health, Executive Yuan; The Electronic Medical Record Program Office, Taiwan Nursing Informatics Association; Graduate Institute of Medical Informatics, Taipei Medical University & Dept. of Nursing, Mackay Medical College, Taiwan

O. A Complementary Feature Selection Method in Finding Biomarkers
Kung-Hua Chang and D. Stott Parker
University of California Los Angeles, California, USA

O. A Study of Functional Delegation in Adjoining Cells
Bharat S. Rawal and Anthony Atala
Shaw University, Raleigh, North Carolina, USA; Wake Forest Institute for Regenerative Medicine, Wake Forest School of Medicine, Winston Salem, North Carolina, USA

03:00 - 03:20pm: BREAK

03:20 - 05:40pm: During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ESA'13, GEM'13, ICAI'13, ICOMP'13, IKE'13, PDPTA'13, or SWWS'13 conferences. These sessions discuss topics that significantly overlap the scope of BIOCOMP'13.
SESSION 11-CSC: COMPUTATIONAL SCIENCE AND APPLICATIONS
Co-Chairs: Prof. George Jandieri, Georgian Technical University, Georgia; Prof. Zhao Lu, Tuskegee University, Alabama, USA; Prof. A. K. Banerjee, NITT, India
July 25, 2013 (Thursday); 08:00am - 11:20am
(LOCATION: Montecristo 4)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: An Effective Method for Managing Voluminous Data: Reducing Data to Significant Size for Efficient Results
Haydar Teymourlouei
Bowie State University, Bowie, Maryland, USA

08:40 - 09:00am: A Computational Model for Cultural Intelligence
Zhao Xin Wu
University of Quebec in Montreal, Montreal, QC, Canada

09:00 - 09:20am: Power Spectra of Ionospheric Scintillation
G. V. Jandieri and A. Ishimaru
Georgian Technical University, Tbilisi, Georgia;
University of Washington, Seattle, Washington, USA

09:20 - 09:40am: Nonlinear Vibration of Fluid-loaded Double-walled Carbon Nanotubes Subjected to a Moving Load Based on Stochastic FEM
Tai-Ping Chang and Quey-Jen Yeh
National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan; National Cheng-Kung University, Tainan, Taiwan

09:40 - 10:00am: A Framework for Scientific Data Management in the Cloud
Verena Kantere
University of Geneva, Switzerland

10:00 - 10:20am: Pulsatile Flow of Herschel-Bulkley Fluid in Tapered Blood Vessels
R. Ponalagusamy
National Institute of Technology, Tiruchirappalli, India

10:20 - 10:40am: BREAK

10:40 - 11:00am: Classical Dynamic Ising Model
M. George, C. Turquois, F. F. Yepiz, Jr.
Southwestern College, Chula Vista, California, USA;
University of California, San Diego, La Jolla, California, USA
11:00 - 11:20am: Flow of a Micropolar Fluid Through a Stenosed Artery with Radially Variable Viscosity
A. K. Banerjee, R. Ponalagusamy, R. Tamil Selvi
National Institute of Technology, Tiruchirappalli, India

SESSION 12-CSC-MSV: TOPICS IN SCIENTIFIC COMPUTING + MODELING, SIMULATION & VISUALIZATION METHODS:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Prof. Felix Njeh, Bowie State University, USA; Raymond Joseph, IIT Madras, India
July 25, 2013 (Thursday); 11:20am - 04:00pm (at the latest)
,LOCATION: Montecristo 4

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. The 60-minute lunch break is at 12:40pm.

O. Procedural Generation of Terrain Within Highly Customizable JavaScript Graphics Utilities for WebGL
T. H. McMullen and K. A. Hawick
Massey University, Auckland, New Zealand

O. Predicting Hysteresis Loss in Hip Joint Implants
Mohammad Hodaei and Kambiz Farhang
Southern Illinois University Carbondale, Illinois, USA

O. Structured Fuzzy Based Methodological Approach Towards Sustainability Performance Assessment
C. Bokhoree and P. O. St Flour
University of Technology, Mauritius

O. Heart Disease Risk Detection with Competitive Learning and Adaptive Fuzzy Inference System, A Mobile Application
S. M. Farshchi
Tehran Institute for Scientific Methodology, Tehran, Iran

O. An HHT-based Supercomputing Engine Design for Non-linear and Non-Gaussian Signal Processing Applications
Chia-Ching Chou and Wai-Chi Fang
National Chiao Tung University, Hsinchu, Taiwan, ROC

O. Neighbourhood and Number of States Dependence of the Transient Period and Cluster Patterns in Cyclic Cellular Automata
K. A. Hawick
Massey University, Auckland, New Zealand

O. Fast Operations for Certain Two Alphabet Circulant Matrices
Gene Awyzio and Jennifer Seberry
Centre for Information Security Research, Faculty of Engineering and Information Sciences, University of Wollongong, NSW, Australia

O. Using the Centinel Data Format to Decouple Data Creation from Data Processing in Scientific Programs
Clarence Lehman and Adrienne Keen
University of Minnesota, Saint Paul, Minnesota, USA; London School of Hygiene and Tropical Medicine, London, UK

O. Modeling and Simulation of Standard II Missiles Intercepting a Low Target
Jinyong Yu and Junwei Lei
Naval Aeronautical & Astronautical University, Yantai, P. R. China

O. From Turing Machine to Hypercomputational Systems and Quantum Theory, A Conceptual Review
Sam Farshchi
Tehran Institute for Scientific Methodology, Tehran, Iran

O. Completeness Relation Connected With Spectral Expansion On The Entire Axis Of The Green Function For a Two-Layer Medium in Fundamental Functions of a Self-Adjoint Sturm-Liouville Operator
E. G. Saltykov
Lomonosov Moscow State University, Moscow, Russia
DMIN'13 CONFERENCE SCHEDULE

The 2013 International Conference on Data Mining

08:00a - 06:00p: During this period, DMIN attendees are encouraged to participate in sessions belonging to IKE'13, BIOCOMP'13, GEM'13, ICAI'13, and SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of DMIN'13.
EEE'13 & IKE'13 CONFERENCE SCHEDULES


SESSION 9-IKE: (CONCURRENT SESSION WITH SESSIONS 10-EEE AND 11-EEE)
MINING OF DATA RICH SOURCES INFORMATION MINING + FORECASTING METHODS + GENETIC ALGORITHMS + DATA WAREHOUSING + CORRELATION ANALYSIS
Co-Chairs: James Schiiller, Oakland University, Rochester, Michigan, USA; Prof. Ray Hashemi, Armstrong Atlantic State University, USA
July 25, 2013 (Thursday); 08:00am - 12:20pm (LOCATION: Cohiba 3)

08:00 - 08:20am: Visualization Tools for Results of Entity Resolution
Cheng Chen, Mahmood Mohammed, John Talburt
University of Arkansas at Little Rock, Arkansas, USA

08:20 - 08:40am: Evaluation of Entity Resolution Results through Benchmarking and Truth set Development
Huzaifa Syed, Fan Liu, Daniel Pullen, Pei Wang, John R. Talburt
University of Arkansas at Little Rock, Arkansas, USA

08:40 - 09:00am: Impact of Data Quality on Entity Resolution in Student Enrollment Data
Pei Wang, Daniel Pullen, John Talburt, Iningning Wu
University of Arkansas at Little Rock, Arkansas, USA

09:00 - 09:20am: Probabilistic Scoring Methods to Assist Entity Resolution Systems Using Boolean Rules
Fumiko Kobayashi and John R. Talburt
University of Arkansas at Little Rock, Arkansas, USA

09:20 - 09:40am: Intelligent Mobile App for Identifying Skin Pigments
Mark Smith, Ray R. Hashemi, Azita Bahrami
University of Central Arkansas, Arkansas, USA; Armstrong Atlantic State University, Savannah, Georgia, USA

09:40 - 10:00am: Tackling Financial and Economic Crime Through Strategic Intelligence: The Emprise Framework
Simon Andrews, Simon Polovina, Simeon Yates, P. Saskia Bayerl, and Babak Akhgar
Sheffield Hallam University, Sheffield, UK

10:00 - 10:20am: An Approach for Mining Complex Spatial Dataset
Grace L. Samson and Joan Lu
University of Huddersfield, Huddersfield, UK

10:20 - 10:40am: BREAK

10:40 - 11:00am: Wavelet Based Exchange Rate Forecasting with Improved Instance Based Learning
Pushpalatha M P and Nalini N
Sri Jayachamarajendra College of Engineering, Karnataka, India; Nitte Meenakshi Institute of Technology, Karnataka, India
<table>
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<th>Time</th>
<th>Session</th>
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<tr>
<td>11:00 - 11:20am</td>
<td><strong>DELAY-CFIM: A Sliding Window Based Method on Mining Closed</strong>&lt;br&gt;<strong>Frequent Itemsets over High-Speed Data Streams</strong>&lt;br&gt;Chunkai Zhang, Yulong Hu, Lei Zhang&lt;br&gt;Harbin Inst. of Tech., Shenzhen Graduate School, P. R. China</td>
</tr>
<tr>
<td>11:20 - 11:40am</td>
<td><strong>Improved Genetic Algorithm For Intrusion Detection System</strong>&lt;br&gt;Indr Jeet Rajput and Dheeraj Pal&lt;br&gt;Hasmukh Goswami College Of Engineering, Ahmedabad, India; Institute of Management Studies, Ghaziabad, India</td>
</tr>
<tr>
<td>11:40 - 12:00pm</td>
<td><strong>Correlation of Aerosol Optical Thickness and Chlorophyll-a Concentration all Over The World</strong>&lt;br&gt;Xiangguang Zhang, Zeyu Zheng, Ichio Asanuma&lt;br&gt;Tei University of Information Science, Japan</td>
</tr>
<tr>
<td>12:00 - 12:20pm</td>
<td><strong>Data Quality Tools for Enterprise Data Warehousing</strong>&lt;br&gt;Asif Hussain, Hakim Ali Talpur, Shahid Rasool&lt;br&gt;Higher Education Commission, Pakistan; Mobilink Telecom Islamabad, Pakistan</td>
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<tr>
<td>12:20 - 01:20pm</td>
<td><strong>LUNCH (On Your Own)</strong></td>
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</table>

**SESSION 10-EEE:**  
**LEARNING METHODS, E-LEARNING + EDUCATIONAL TOOLS, & RELATED ISSUES + ASSISTIVE TECHNOLOGIES**  
Co-Chairs: Prof. Eamon Doherty, Director of Cybercrime Training Lab, Fairleigh Dickinson University, USA; Soumya Hari, Tata Consultancy Services Limited, India  
July 25, 2013 (Thursday); 08:00am - 10:40am  
(LOCATION: Montecristo 2)  

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:00 - 08:20am</td>
<td><strong>Applying a Developed Conceptual Framework for Testing the</strong>&lt;br&gt;<strong>De-termination of Suitable Dynamic Platforms for Teaching Web</strong>&lt;br&gt;Applications Development&lt;br&gt;Johnsen Dehinbo&lt;br&gt;Tshwane University of Technology, Soshanguve, South Africa</td>
</tr>
<tr>
<td>08:20 - 08:40am</td>
<td><strong>An Investigation in the Impact of Mobile Learning on Today's</strong>&lt;br&gt;<strong>Educational Environment</strong>&lt;br&gt;Faisal Manga and Joan Lu&lt;br&gt;University of Huddersfield, Huddersfield, UK</td>
</tr>
<tr>
<td>08:40 - 09:00am</td>
<td><strong>Interactive Social Distance Learning Environment</strong>&lt;br&gt;Maram A. Alshareef&lt;br&gt;King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia</td>
</tr>
<tr>
<td>09:00 - 09:20am</td>
<td><strong>A Prototype Facilitators Dashboard: Assessing and visualizing</strong>&lt;br&gt;<strong>dialogue quality in online deliberation for education and work</strong>&lt;br&gt;Tom Murray, Leah Wing, Beverly Park Woolf, Alexander Wise, Shijun Wu, Lori Clarke, Lee Osterweil, and Xiaoxi Xu&lt;br&gt;University of Massachussetts, Amherst, Massachusetts, USA</td>
</tr>
<tr>
<td>09:20 - 09:40am</td>
<td><strong>Text Analysis of Deliberative Skills in Undergraduate Online</strong>&lt;br&gt;<strong>Dialogue: Using L1 Regularized Logistic Regression with</strong>&lt;br&gt;Psycholinguistic Features&lt;br&gt;Xu, X., Murray, T., Woolf, B.P.&lt;br&gt;University of Massachusetts, Amherst, Massachusetts, USA</td>
</tr>
<tr>
<td>09:40 - 10:00am</td>
<td><strong>Problems of Establishing Effective Development for E-Learning</strong>&lt;br&gt;<strong>Academic Staff at Universities in Developing Countries</strong>&lt;br&gt;Nabil Moussa&lt;br&gt;Ahlia University, Bahrain</td>
</tr>
</tbody>
</table>
10:00 - 10:20am: Remote Control Model for Controlling Multiple Devices Through Mobile - A Mobile System for Assistive Technology
Kamran Ahsan, Sarwat Iqbal, Muhammad Azhar Hussain
Federal Urdu University of Arts, Science & Technology, Pakistan

10:20 - 10:40am: E-Learning Factors and Definitions
Abdullah Abdulaziz AlShoshan and Mehdi Zargham
Southern Illinois University, Carbondale, Illinois, USA

SESSION 11-EEE: (CONCURRENT SESSION WITH SESSION 9-IKE)
TOPICS IN E-LEARNING, E-BUSINESS, ENTERPRISE INFORMATION SYSTEMS, & E-GOVERNMENT: LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Larry Wang, Southern Polytechnic State University, USA
July 25, 2013 (Thursday); 10:40am - 12:40pm (est.)
(LOCATION: Montecristo 2)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. Content Development for Distance Education in Advanced University Mathematics Using Mizar
Takaya Ido, Hiroyuki Okazaki, Hiroshi Yamazaki, Pauline Naomi Kawamoto, Katsumi Wasaki, Yasunari Shidama
Shinshu University, Nagano, Japan

O. Improving Student Success Rate with Online Homework
Larry Wang and Zhu Cao
Southern Polytechnic State University, Marietta, Georgia, USA

O. A Cross-Cultural Analysis of Mobile Learning Adoption
Ibrahim Arpaci
Informatics Institute, Middle East Technical University, Turkey

O. Multidisciplinary in Knowledge Transmission Management System (KTMS) Evaluation
University of South Dakota, St. Vermillion, South Dakota, USA

O. e-Toogle: Education Platform for Cyber-Physical Environments
Rafael Santos, Silvia Botelho, Greyce Nogueira, Ricardo Rodrigues, and Marcos Amaral
Federal University of Rio Grande (FURG), Brazil

O. Overcoming the Barriers to Implement Electronic Learning in Higher Education
Nasreddin B. ElZoghbi and Abdulbasit S. Khashkhush
University of Tripoli, Libya; University of Salford, UK

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 12-IKE:
TOPICS IN INFORMATION & KNOWLEDGE ENGINEERING:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Prof. Kiran R. Amin, U. V. Patel College of Engineering, Ganpat University, India
July 25, 2013 (Thursday); 01:20pm - 05:40pm (at the latest)
(LOCATION: Cohiba 3)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. (A 20-minute break at 3:00pm.)
O. Time Interval Sequential Sequence Mining in Large Database
Kiran R. Amin and J. S. Shah
U. V. Patel College of Eng., Canpat University, Patan, India

O. A Large Scale Desalination of Sea Water by Solar Energy Using an Unconventional Seawater Collectors Scheme
Al Ashry, Mohammed H. S.
Shaqra University, Saudi Arabia

O. Query Based Distributed Data Warehouse Architecture: To Manage Response Time Queries
Muntaha Maqbool, Irfan Ahmed Salfi, Naveed Hussain Shah
COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan; WiTribe Internet Provider, Islamabad, Pakistan; Overseas Employment Cooperation, Islamabad, Pakistan

O. Electronic Voting Systems for European Union Countries
Saman Shojae Chaekar, Hossein Moradzadeh, Christian Sunday Chukwuekezie, and Mazdak Zamani
Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia; Asia Pacific University of Information Technology, Malaysia

O. Query Expansion Using Association Matrix For Improved Information Retrieval Performance
Jedsada Chartree, Ebru Celikel Cankaya, Santi Phithakkitnukoon
University of North Texas, Denton, Texas, USA; University of Texas at Dallas, Richardson, Texas, USA; The Open University, Milton Keynes, UK

O. Relationship Between DSS Categories and Different Methodologies
Marjan Abdyazdan, Mohammad Ganji, Mohammad Heidari Reyhani, and Sheida Shirazi
Islamic Azad University, Mahshahr, Iran; Tarbiat Modares University, Tehran, Iran

O. Solving Constraint Satisfaction Problems with Sudoku Examples
Song Chen
University of Maryland Baltimore County, Maryland, USA

O. Dynamic Traffic Awareness Statistical Model for Firewall Performance Enhancement
L. Zhang, Z. Trabelsi, S. Zeidan, K. Ghoud
College of Information Technology, UAE University, Al Ain, United Arab Emirates (UAE)

O. Security Enhancement using a Fingerprint Numbering for the Smart Device
KyoungYul Bae and Hyun Byun
Sangmyung University, Republic of Korea

O. Social Network Based Recommendation Systems: A Short Survey
Song Chen, Samuel Owusu, Lina Zhou
University of Maryland, Baltimore County, Maryland, USA

O. Bioinformatics Knowledge Transmission: overview and flexible comparison of computer based training approaches
University of South Dakota, Vermillion, South Dakota, USA

O. Using Graph Theoretic Approach to Digital Steganography
P.G.V. Suresh Kumar, Nasreddin Bashir El Zoghbi, Getahun Mekuria
Tripoli University, Tripoli, Libya; Adama Science and Technology University, Adama, Ethiopia; Addis Ababa Institute of Technology, Addis Ababa, Ethiopia
ERSA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Engineering of Reconfigurable Systems and Algorithms

08:00a – 05:00p: For today, ERSA attendees are encouraged to participate in sessions belonging to PDPTA'13, ESA'13, CDES'13, ICWN'13, and/or SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of ERSA'13.
FECS'13 CONFERENCE SCHEDULE

The 2013 International Conference on Frontiers in Education:
Computer Science and Computer Engineering

SESSION 6-FECS: TOOLS & SYSTEMS + STUDIES INCLUDING, PLAGIARISM, ATTENDANCE TRACKING, CLASS MANAGEMENT SYSTEMS, RESEARCH METHODS, CAPSTONE PROJECTS, AND RELATED ISSUES
Co-Chairs: Prof. Henry Hexmoor, Southern Illinois University, Carbondale, Illinois, USA; Prof. Rosa Leonor Ulloa Cazarez, Universidad de Guadalajara, Mexico.
July 25, 2013 (Thursday); 08:00am - 10:20am
(LOCATION: Cohiba 4)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Breaking the Programming Obstacles Using an Automatic Tool
Luis H. Gonzalez Guerra and Armandina J. Leal
Tecnologico de Monterrey, ITESM, Mexico

08:40 - 09:00am: Online Detection of Source-code Plagiarism in Undergraduate Programming Courses
Dieter Pawelczak
University of Bundeswehr Munich (UniBw M), Neubiberg, Germany

09:00 - 09:20am: Some Useful Components of an Effective Class Management System
Luby Liao
University of San Diego, California, USA

09:20 - 09:40am: Portal of Research Methods and Methodologies for Research Projects and Degree Projects
Anne Hakansson
The Royal Institute of Technology, KTH, Kista, Sweden

09:40 - 10:00am: Attendance Tracking
Dwight Deugo
Carleton University, Ottawa, Ontario, Canada

10:00 - 10:20am: International Computer Science Capstone Project Exchange Program: A Case Study Report
Dean Knudson
North Dakota State University, Fargo, North Dakota, USA

10:20 - 10:40am: BREAK

SESSION 7-FECS: TEACHING METHODS + TEACHING SUPPORT SYSTEMS AND TOOLS + CASE STUDIES
Co-Chairs: Prof. Bandi Samson Herold, Swarnandhra College of Engineering & Technology, Jawaharlal Nehru Technological University, India; Prof. Diego Mauricio Torres Arias, EAFIT University, Colombia
July 25, 2013 (Thursday); 10:40am - 02:40pm
(LOCATION: Cohiba 4)

10:40 - 11:00am: A JFLAP Extension for Checking Context-Free Grammars
Priyanka Bansal and Viraj Kumar
NIIT University, Neemrana, Rajasthan, India

11:00 - 11:20am: Teaching Hands-on Design in Systems Engineering Principles
Ken Ferens
University of Manitoba, Winnipeg, Manitoba, Canada
11:20 - 11:40am: The Development An Interactive Ibook Application To Harness The Next Generation Of 'Computer Architecture' Educational Experiences  
F. Carroll, N. Thomas, M. Ware  
University of Glamorgan, Cardiff, Wales, UK

11:40 - 12:00pm: Using BDI-extended NetLogo Agents in Undergraduate CS Research and Teaching  
Jonathan Wiens and Dagmar Monett  
Berlin School of Economics and Law, Germany

12:00 - 12:20pm: A Problem Based Approach to Teaching Programming  
Wayne Pullan, Steven Drew, Steven Tucker  
Griffith University, Queensland, Australia

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Computing Education and Research for High School Students Through Subject Modularization and Basic Software  
Jiho Kim and Seongjai Kim  
Mississippi State University, USA

01:40 - 02:00pm: A Real-World Project to Apply Discrete Structures  
Anja Remshagen  
University of West Georgia, Carrollton, Georgia, USA

02:00 - 02:20pm: Implementing Strategies To Improve A Video Game Programming Course  
Antonio Mejorado  
University of Tecnologico de Monterrey, Monterrey, Mexico

02:20 - 02:40pm: A Monitored Student Testing Application Using Cloud Computing  
R. Mullapudi and G. Hsieh  
Norfolk State University, Virginia, USA

02:40 - 03:00pm: BREAK

SESSION 8-FECS: TOPICS IN EDUCATION - COMPUTER SCIENCE & COMPUTER ENGINEERING: LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS  
Co-Chairs: Dr. Maddula Muralidhara Rao, Swarnandhra College of Engineering & Technology, Jawaharlal Nehru Technological University, India; Mario Chapa, The University of Tokyo, Japan

July 25, 2013 (Thursday); 03:00pm - 05:00pm (at the latest)  
(LOCATION: Cohiba 4)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non-registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. Computing Education on Cloud  
Ying Xie and Ken Hoganson  
Kennesaw State University, Kennesaw, Georgia, USA

O. Using a Multidisicplinary Research Project to Strengthen Learning in Software Engineering  
Wendy A. Lawrence-Fowler, Laura M. Grabowski, Richard H. Fowler  
The University of Texas-Pan American, Texas, USA

O. Wooden Simulator of Convex Hull  
Mohd Arif Siddique, Atul Bhardwaj, Jay Kumar, and Shashi Bhushan Singh Yadav  
Radha Govind Group of Institutions (RGGI), Meerut, India

O. Evaluating a Tool to Support Computer Programming Learning  
Carlos Costa  
ISCTE - IUL, Lisboa, Portugal

O. Content Engineering for Online Learning and Self-learning  
Subraya, S Meenakshi, Manjunatha Prasanna S, Rengarajan Ramanujam  
Infosys Limited, Mysore, India

O. Assessment Agent Based ABET criterions  
Abbas M. Al-Bakry  
University of Babylon, Iraq
ICAI'13 & GEM'13 CONFERENCE SCHEDULES

The 2013 International Conference on Artificial Intelligence (ICAI'13)
+
The 2013 International Conference on Genetic and Evolutionary Methods (GEM'13)

SESSION 11-ICAI: AGENT TECHNOLOGIES AND APPLICATIONS
Co-Chairs: Leonardo L. B. V. Cruciol,
University of Brasilia, Brazil
July 25, 2013 (Thursday); 08:00am - 10:20am
(LOCATION: Cohiba 7)

08:00 - 08:20am: FREE SLOT
08:20 - 08:40am: FREE SLOT
08:40 - 09:00am: An Approach for Norm-Based Behavior Modification in Model-Based Reflex Agents
Gustavo Campos, Savio Freire, Mariela Cortes, W. Vasconcelos
State University of Ceara, Brazil; University of Aberdeen, UK
09:00 - 09:20am: Coalition-Based Approach For Reach Stackers Routing Problem In Container Terminals
Habiba Bouzidi, Meriam Kefi, Khaled Ghedira
SOIE Laboratory, University of Tunis, Tunisia
09:20 - 09:40am: Adjustable Group Behavior of Agents in Action-based Games
Keith Westphal and Brian McLaughlan
University of Arkansas - Fort Smith, Arkansas, USA
09:40 - 10:00am: An Agent-Based Intentional Multi-Robot Task Allocation Framework
Savas Ozturk and Ahmet Emin Kuzucuoglu
Tubitak BILGEM, Turkey; Marmara University, Turkey
10:00 - 10:20am: Intelligent Agent-Based Framework For Project Integration Management
Ogechikamma Linda Ihekweaba and H. I. Inyama
University of Agriculture; Nnamdi Azikwe University, Nigeria
10:20 - 10:40am: BREAK

SESSION 12-ICAI: KNOWLEDGE & INFORMATION REPRESENTATION, PROCESSING, ENGINEERING, ACQUISITION METHODS & APPLICATIONS
Co-Chairs: Dr. Yun Bai, University of Western Sydney, Penrith, Australia
July 25, 2013 (Thursday); 10:40am - 02:00pm
(LOCATION: Cohiba 7)

10:40 - 11:00am: Syllogistic Reasoning for Cardinal Direction Relations
Ah-Lian Kor and Brandon Bennett
Leeds Metropolitan University, Leeds, UK;
University of Leeds, Leeds, UK
11:00 - 11:20am: An Ontology for Semantic Representation of an Urban Virtual Environment
Kenza Harkouken Salah, Nicolas Sabouret, Jean-Yves Donnart
Thales Training & Simulation, Universiti Pierre et Marie Curie (UPMC), France; Laboratoire d'Informatique pour la Mecanique et les Sciences de l'Ingenieur (LIMSI), France; Thales Training & Simulation, Cergy-Pontoise, France

11:20 - 11:40am: Extracting and Clustering Blog Texts to Investigate Experiences of Tourists
Masato Tokuhisa, Takumi Yamamoto, Takafumi Fukui, Masaki Murata, Jin'ichi Murakami
Tottori University, Japan

11:40 - 12:00pm: Program Completion as Constraint Satisfaction: Tight Logic Programs Revisited
Yun Bai and Yan Zhang
University of Western Sydney, Penrith, NSW, Australia

12:00 - 12:20pm: MedTrad+: An Expert System for TRADitional MEDicine
Brou Konan Marcellin, Goore Bi Tra, Lokpo Ibrahim
Department of Mathematics & Informatics, INP-HB, Yamoussoukro, Ivoire

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Automated Financial Data Extraction - An AI Approach
Hassan Alam, Aman Kumar, Cheryl Lee, Yuliya Tarnikova
BCL Technologies, San Jose, California, USA

01:40 - 02:00pm: Improve Path Planning Performance by Monitoring Human Decisions
CheeChian Cheng and Henry Hexmoor
Southern Illinois University, Carbondale, Illinois, USA

SESSION 13-ICAI: (CONCURRENT SESSION WITH SESSION 14-ICAI)
FUZZY LOGIC & APPLICATIONS + COGNITIVE SCIENCE & SYSTEMS + QUANTUM LOGIC & COMPUTING + AI APPLICATIONS + LEARNING METHODS
Co-Chairs: Dr. James A. Crowder,
Raytheon Intelligence, Information, and Services, USA
July 25, 2013 (Thursday); 02:00pm - 06:00pm
(LOCATION: Cohiba 7)

02:00 - 02:20pm: Microgenetic Critic for Situation Assessment Supporting Abduction and Surprise
Ronald L. Hartung and Kirk Weigand
The Design Knowledge Company, Fairborn, Ohio, USA;
Air Force Research Laboratory, AFRL/RYWA, Wright-Patterson AFB, USA

02:20 - 02:40pm: Cognitive Control of Artificial Life Forms Utilizing Artificial Procedural Memories
James A. Crowder
Raytheon Intelligence and Information Systems, Aurora, Colorado, USA

02:40 - 03:00pm: Performance Analysis of Fuzzy Logic and PID Controller for PM DC Motor Drive
Khalid Al-Mutib and N. M. Adamali Shah
King Saud University, Riyadh, Saudi Arabia

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: The Cognitive Architecture of the Human Mind
Christian C. Wagner and James G. Schiller
Oakland University, Rochester, Michigan, USA
03:40 - 04:00pm: Designing a Hybrid Neuro-Fuzzy System for Classifying the Complex Data, Application on Cornea Transplant
Mojtaba Sedigh Fazl, Keykhosrow Keshavarzi, Saeed Setayeshi
University of Montesquieu Bordeaux, France; Amir Kabir University of Technology, Iran

04:00 - 04:20pm: Optimization Of Heat Treatment Process Parameters Using Neural Networks and Nelder-Mead Algorithm
Fatih Keskinlikic and Tarik Cakar
Mucur Technical Vocational Schools of Higher Education, Ahi Evran University, Turkey; Sakarya Universit, Turkey

04:20 - 04:40pm: Adaptive Sliding Mode and Nussbaum Gain Hybrid Control of Supersonic Missiles
Junwei Lei
Naval Aeronautical and Astronautical University, P. R. China

04:40 - 05:00pm: Gentle Early Detection Algorithm
Hussein Abdeljabber and Mahmoud Abdeljabber
The World Islamic Sciences and Education (W.I.S.E.) University, Amman, Jordan; Philadelphia University, Jordan

05:00 - 05:20pm: Predicting Phishing Websites Using Neural Network Trained with Back-Propagation
Rami M. Mohammad, Fadi Thabtah, Lee McCluskey
University of Huddersfield, Huddersfield, UK; E-Business Department, CUD, Dubai, UAE

05:20 - 05:40pm: An Associative Classification Algorithm for Categorizing Text
Bashar Aburumman and Hussein Abdeljabber
Ablaqa'a Applied University, Jordan; Arab Open University, Kingdom of Saudi Arabia

05:40 - 06:00pm: FREE SLOT

SESSION 14-ICAI: (CONCURRENT SESSION WITH SESSIONS 13-ICAI & part of 12-ICAI)
TOPICS IN ARTIFICIAL INTELLIGENCE: LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Brian H. Xu, Honeywell Aerospace, USA
July 25, 2013 (Thursday); 01:20pm - 06:00pm
(LOCATION: Montecristo 2)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. (A 20-minute BREAK at 03:00pm.)

O. Machine Learning Approach for Analyzing Health Data
Douglas P. Taggart, Alex I. Waltz, Gabriela Hristescu
CS Department, Rowan University, Glassboro, New Jersey, USA

O. Arabic Data Analysis Using Classification Techniques
Malik Abu Odeh and Naser Abudalbouh
Philadelphia University, Amman, Jordan; Ministry of Interior, Amman, Jordan

O. Telecommunication Error Resilient Reinforcement Learning and Adaptive Control Algorithm
Nathaniel Nana Kojo Taylor
Bowie State University, Bowie, USA

O. New Ensemble Combination Scheme
Namhyoung Kim, Youngdoo Son, Jaewook Lee
Seoul National University, Seoul, Korea
O. Finding Semantic Correlation in Structured Data From Unstructured Notes
C. Anantaram, Shailja Khurana, Vuppala Gowri Dev
Tata Consultancy Services Limited, Haryana, India
O. InteligQ: An Intelligent Question Answering Agent
Ali Ghobadi, Maseud Rahgozar, Nouna Khandan
Database Research Group (DBRG), School of ECE, University of Tehran, Iran; Control and Intelligent Processing Center of Excellence, School of ECE, University of Tehran, Iran; Islamic Azad Univ., Tehran, Iran
O. Agent Based Intelligent Alert System for Smart-Phones
Sandeep Venkatesh, Shreyas Balakuntala, Rajarajeswari S, Nytika N Shetty, Namratha Shetty, and Neha Sudhakar E
M S Ramaiah Institute of Technology, India
O. A Meta-Heuristic Approach For Energy-Efficient Multi-Agent Path Planning
Wenjie Wang and Wooi-Boon Goh
Nanyang Technological University, Singapore
O. An Intelligent System to Detect, Avoid and Maintain Potholes: A Graph Theoretic Approach
Shreyas Balakuntala, Sandeep Venkatesh, Rajarajeswari S, Sunil Kumar K M, and Nitin Jagadish
M S Ramaiah Institute of Technology, India
O. A Two-level Anomaly-signature Autonomous Intrusion Detection Model Inspired of Immune System
Reza Ravani, Elnaz B. Noeparast, Ramin Nasiri
Islamic Azad University, Central Tehran Branch, Tehran, Iran
O. Vehicle Image Classification Method Using Edge Dimensions, SVM and Prototype
Fabrizia Medeiros de Sousa Matos and Renata Maria Cardoso R. de Souza
Instituto Federal de Educacao, Ciencia e Tecnologia da Paraiba, Joao Pessoa, Brazil; Centro de Informatica, Universidade Federal de Pernambuco, Recife, Brazil
O. Forecasting Meteorology Models Implemented by the Feed-forward Architecture of Neural Networks
Jorge Moreno and John Corredo
University of Pamplona, Villa del Rosario, Colombia
O. Design of Automatic Spontaneous Arabic Speech Understanding System
Aymen Trigui
Faculty of Sciences of Monastir, LaTice Lab. Monastir Team, Tunisia
O. Phonetic Feature Based ASR Incorporating Gram-Schmidt Normalization
Mohammed Rokibul Alam Kotwal, Mohammad Shafiul Alam, Mahmudur Rahman, and Shibli Shadik Osmani
United International University, Dhaka, Bangladesh; Indra Philippines Inc., Bangladesh
O. Ontology-Based Heuristic Algorithm For Text Classification In Oil Industry Application
Nayat Sanchez-Pi, Luis Marti Orosa, Ana Cristina Bicharra Garcia
ADDLabs - Computer Science Department. Universidade Federal Fluminense, Brazil; EE Department, Pontificia Universidad Catolica, Brazil
ICOMP'13 + GCA'13 + SWWS'13 CONFERENCE SCHEDULES

The 2013 International Conference on Internet Computing and Big Data (ICOMP'13) +

The 2013 International Conference on Grid & Cloud Computing and Applications (GCA'13) +

The 2013 International Conference on Semantic Web and Web Services (SWWS'13)

SESSION 9-ICOMP: TOPICS IN INTERNET & CLOUD COMPUTING AND BIG DATA:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Anitha Chennamaneni,
Texas A & M University Central Texas, USA;
Nathaniel Taylor, Bowie State University, USA
July 25, 2013 (Thursday); 08:00am - 10:40am (at the latest)
(LOCATION: Partagas 2)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. (A 20-minute BREAK at 10:20am.)

0. Accelerometer and Spatial-Orientation Interfaces to Maze Games on Tablets and Mobile Devices
   S. A. Innes, B. J. Kennedy, E. P. Clarkson, L. J. Edmonds, and K. A. Hawick
   Massey University, Auckland, New Zealand

0. Statistical Analysis of Degradation Data for Random Coefficient Satisfied Multivariate Normal Distribution
   Junsheng Wang, Yizhou He, Jinhuang Wu, Junwei Lei
   Beijing, P. R. China

0. Multidimensional Analysis Using Knowledge Layer for Effective Decision Making
   Ayaz Mahmood and Sohail Asghar
   Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), Islamabad, Pakistan; University Institute of IT PMAS-Arid Agriculture University, Rawalpindi, Pakistan

0. Some Implications of a Scale Invariant Model of Statistical Mechanics to Boltzmann versus Shannon Entropy in Thermodynamics and Information Theory
   Siavash H. Sohrab
   Northwestern University, Illinois, USA

0. Agent Based Dynamic Data Splitting in Relationnals Data Warehouses
   Nader Kolsi, Abdelaziz Abdelatif, Khaled Ghedira
   Business School of Tunis, University Campus of Manouba, Tunisia;
   University of Sciences of Tunis, Univ. Campus of El Manar, Tunisia;
   Higher Inst. of Management of Tunis, Tunis University, Tunisia

0. Statistical Analysis of Degradation Data Based on Random Coefficient Distribution
   Junsheng Wang, Yizhou He, Jinhuang Wu, Junwei Lei
   Beijing, P. R. China
O. Mining Dynamic Association Rules From Multiple Time-series Data Streams
Yulong Hu; Chunkai Zhang
Harbin Institute of Technology Shenzhen Graduate School, P. R. China

O. Enforcing Multi-User Access Policies in Cloud Computing
Shubhada P. Mone and Sunita S. Dhotre
Pune University, India; Marathwada Mitra Mandal's College of Engineering, Pune, India; Bharati Vidyapeeth University, India

10:40a - 05:40p: During this period, ICOMP'13, GCA'13, and SWWS'13 attendees are encouraged to participate in sessions belonging to BIOCOMP'13, EEE'13, FECS'13, ICWN'13, IKE'13, PDPTA'13, or SAM'13 conferences. These sessions discuss topics that significantly overlap the scope of ICOMP'13, GCA'13, and SWWS'13.
SESSION 13-ICWN: RADIO NETWORKS + RADAR + RFID - UTILIZATION AND APPLICATIONS + TRACKING SYSTEMS
Co-Chairs: Professor Annamalai Annamalai; Professor and Director of CECSTR, Prairie View A&M University, USA
July 25, 2013 (Thursday); 08:00am - 10:20am
(LOCATION: Partagas 3)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Study and Analysis of Basic Modulation Scheme in Wireless Environment Using USRP and Matlab (Simulink)
Amith Khandakar
Qatar University, Qatar

08:40 - 09:00am: Towards Spectrum Resource Management in Cognitive Radio Networks via Intrusion Detection and Response Model
Obeten O. Ekabua, Ohaeri, Ifeoma Ugochi
North-West University, Mafikeng Campus, Mmabatho, South Africa

09:00 - 09:20am: A DS-UWB Radar System Using a Short-Length PN Sequence
Youngseok Lee, Jeongyoon Shim, Youngpo Lee, Jaewoo Lee, Seokho Yoon
Sungkyunkwan University, Korea

09:20 - 09:40am: FPGA-Based Implementation of a Hybrid DS/FFH Spread-Spectrum Transceiver
Stephen M. Killough, Mohammed M. Olama, Phani Teja Kuruganti, and Stephen F. Smith
Oak Ridge National Laboratory, Oak Ridge, TN, USA

09:40 - 10:00am: Spectrum Detection and Spectrum Decision in Cognitive Radio Networks Using Intelligent Mobile Agents
Nnenna Christine Eric-Nwonye and Obeten Obi Ekabua
North-West University, Mafikeng Campus, Mmabatho, South Africa

10:00 - 10:20am: An Unambiguous Correlation Function With a Sharp Main-Peak for BOC Signal Tracking
Youngseok Lee, Jeongyoon Shim, Youngpo Lee, Jaewoo Lee, Seokho Yoon
Sungkyunkwan University, Korea

10:20 - 10:40am: BREAK
SESSION 14-ICWN: WIRELESS NETWORKS AND ENERGY EFFICIENCY ISSUES + QoS
Co-Chairs: Professor K. Ferens, University of Manitoba, Canada
July 25, 2013 (Thursday); 10:40am - 12:00noon
(LOCATION: Partagas 3)

10:40 - 11:00am: Supporting Secure Scalable End-To-End QoS in 4G Mobile Wireless Networks
Marcel Ohanga and Best Muchenje
University of South Africa (UNISA), Pretoria, South Africa

11:00 - 11:20am: An Energy Efficient and Minimum Latency Routing Protocol for Multihop WSNs
Changyan Yi and Ken Ferens
University of Manitoba, Winnipeg, Manitoba, Canada

11:20 - 11:40am: Enhancement Energy Efficient Routing in WSN
Rushdi A. Hamamreh and Mahmoud I. Arda
Al-Quds University, Jerusalem

11:40 - 12:00pm: A Fuzzy Approach in Single Relay Selection for Cooperative Communication Based on Signal Strength and Residual Energy
Rafi Belal, Ken Ferens, Witold Kinsner
University of Manitoba, Winnipeg, Manitoba, Canada

12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 15-ICWN: TOPICS IN WIRELESS NETWORKS & EMBEDDED SYSTEMS & COMPUTER DESIGN
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Eyidayo Adebola, Prairie View A&M University, Texas, USA
July 25, 2013 (Thursday); 01:00pm - 06:00pm
(LOCATION: Partagas 3)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long (a 20-minute break at 3:00pm)

0. City-wide Coordinated Ramp Metering Based on Wireless Sensor Networks
Saad A. Alyousef, Abdullah Al-Dhelaan, Samir Elmougy
King Saud University, Riyadh, Saudi Arabia

0. Study of the Feasibility of Radio over Fiber Technology for WiMAX Systems
Ahmad Yahya M. Floos and Nisar Khan
King Saud University, Riyadh, Saudi Arabia

0. Networked Intelligent Autonomous Vehicles for Automated Container Terminals
Bouabdellah Kechar, Hafid Haffaf, Rochdi Merzouki
University of Oran, Algeria; Polytech Lille, France

0. Designing and Manufacturing of Real ICs - A Concept in Education for Teaching Students in Embedded Computer Architecture
Marc Reichenbach, Benjamin Pfundt, Timo Nieszner, Dietmar Fey
Department of Computer Science, Chair of Computer Architecture, Friedrich-Alexander-University, Erlangen-Nuremberg, Germany

0. Mobile Computing: Security Issues
Mohamad Ibrahim Ladan
Haigazian University, Beirut, Lebanon

0. Hadoop Distributed File System
Mohammed Alghamdi
Al-Baha University, Al-Baha City, Kingdom of Saudi Arabia; New Mexico Institute of Mining and Technology, Socorro, New Mexico, USA
O. EECLA: An Energy-Efficient Clustering Algorithm Based on Learning Automata for Wireless Sensor Network
Shima Mobininejad, Zahra Rezaei, Faezeh Akbari
Islamic Azad University, Kashan, Iran;
Islamic Azad University, Qazvin, Iran
O. Low Complexity Quasi-Cyclic LDPC Decoder Architecture for IEEE 802.11n
Sherif Abou Zied, Ahmed Tarek Sayed, Rafik Guindi
Varkon Semiconductors, Cairo, Egypt; Nile University Giza, Egypt
O. VLC System Using PSoC Microcontroller
Harish Kalla, M.V. Lakshmaih, Pendem Suresh Kumar, Thimmaih
Srikrishna Devaraya University, Ananthapur, India;
Adama Science & Technology University, Adama, Ethiopia
O. Energy-Efficient Packet Transmissions in Wireless Networks
Mohammed Alghamdi
Al-Baha University, Al-Baha City, Kingdom of Saudi Arabia;
New Mexico Institute of Mining and Technology, Socorro, New Mexico, USA
O. Solar Array Positioning Controller
B. R. Shaer, N. M. Eubanks, C. A. Hayes, V. S. Ilin, A. F. Potter
ECE Department, University of West Florida, Shalimar, Florida, USA
O. Mobile Ad Hoc Networks Routing Using Ant Colony Optimization
Aws Kanan, Taisir Eldos, Mohd Alkahtani
Salman in Abdulaziz University, Al Kharj, Saudi Arabia
O. New Results on Asymptotic Analysis of Digital Communications in Generalized Fading Channels
A. Annamalai and E. Adebola
Prairie View A&M University, Texas, USA
O. Mobile-Based Location Estimation Using Single Base Station
Samir Al-Bawri and Abdelmalek Zidouri
King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
O. Security in Ubiquitous Computing: A Work in Progress
Hatim A. Aboalsamh, Fatimah Alanizi, Mashael Bin Sabbar, Sumayah AlRabiaah
King Saud University, Saudi Arabia
O. A Framework for Multi-Mobile Orientation Models Using an Extended Kalman Filter and NFC
Trevor Zablocki and Roger Lee
Central Michigan University, Michigan, USA
O. Improving Energy Efficiency of Real-Time Wireless Data Networks
Mohammed Alghamdi
Al-Baha University, Al-Baha City, Kingdom of Saudi Arabia;
New Mexico Institute of Mining and Technology, Socorro, New Mexico, USA
O. Reliable Communication Protocol for Inter-Vehicular Network
Yasir Malik, Usman Tariq, Bessam Abdulrazak
University of Sherbrooke, Sherbrooke, Quebec, Canada;
University of Sherbrooke, Salman bin Abdul-Aziz University, Saudi Arabia
SESSION 12-IPCV: (CONCURRENT SESSION WITH SESSIONS 13-IPCV & part of 15-IPCV)
NOVEL IMAGING APPLICATIONS AND ALGORITHMS
Co-Chairs: Prof. Sarp Erturk, University of Kocaeli, Turkey
July 25, 2013 (Thursday); 08:00am - 12:40pm
(LOCATION: Cohiba 6)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: FREE SLOT

08:40 - 09:00am: Improved Region of Interest for Infrared Images Using Rayleigh Contrast-Limited Adaptive Histogram Equalization
S. Erturk
Kocaeli University Laboratory of Image and Signal processing (KULIS), Kocaeli, Turkey

09:00 - 09:20am: NRPSNR: No-Reference Peak Signal-to-Noise Ratio for JPEG2000
Jaime Moreno, Christine Fernandez, Salvador Saucedo, Beatriz Jaime
National Polytechnic Institute of Mexico, Mexico City, Mexico; University of Poitiers, Poitiers, France

09:20 - 09:40am: Improved Shadow Removal for Unstructured Road Detection
Ngouh Njikam Ahmed Salim, Xu Cheng, Degui Xiao
Hunan University, Changsha, P. R. China

09:40 - 10:00am: Greedy Approach for Low-Rank Matrix Recovery
A. Petukhov and I. Kozlov
University of Georgia, USA; Algosoft-Tech, USA

10:00 - 10:20am: Image Tampering Detection Based on Color Inconsistency
Zhonghai Deng, Jingyuan Zhang, Yuguang Zeng
University of Alabama, Tuscaloosa, Alabama, USA

10:20 - 10:40am: BREAK

10:40 - 11:00am: A Monocular On-Road Vehicle Extraction Algorithm Utilizing Markov Random Field Model
Yuan Gao, Yixu Song, Zehong Yang
Tsinghua University, P. R. China

11:00 - 11:20am: Establishment of the Watershed Image Classified Rule-set and Feasibility Assessment of its Application
Cheng-Han Lin, Hsin-Kai Chuang, Ming-Lang Lin
National Taiwan University, Taipei, Taiwan

Tseng-Yi Chen, Hsin-Wen Wei, Nien-I Hsu, Ying-Jie Chen, Wei-Kuan Shih
Tamkang University, Taipei, Taiwan; National Tsing Hua University, Hsinchu, Taiwan
11:40 – 12:00pm: Expert System Design for Cotton Harvesting Using Shape and Fractal Features
Mahua Bhattacharya, M. Verma, Vivek Shukla, S. S. Kohli, P. Rajan
Indian Institute of Information Technology and Management, Gwalior, India; Ministry of Science and Technology, New Delhi, India; CSIR CMERI Centre of Excellence for Farm Machinery, Ludhiana, India

12:00 – 12:20pm: Activity Recognition and Coordination Analysis of Two-Body Interactions Using Wearable Sensors
Ye Chen and Zhelong Wang
Dalian University of Technology, Dalian, Liaoning, P. R. China

12:20 – 12:40pm: Robust Detection of Copy-Move Forgery in Color Images
Nathalie Diane Wandji, Sun XingMing
School of Information Science and Engineering, Hunan University; Jiangsu Engineering Center of Network Monitoring, Nanjing University of Information Science and Technology, P. R. China

SESSION 13-IPCV: (CONCURRENT SESSION WITH SESSION 12-IPCV)
IMAGE PROCESSING AND VISION ALGORITHMS
Co-Chairs: Daniel Rosen, Director, Imaging Technology, GumGum Inc, Santa Monica, California, USA; Prof. Antonio J. R. Neves, University of Aveiro, Portugal; Prof. Renu Vig, Panjab University, India
July 25, 2013 (Thursday); 08:00am – 10:20am
(LOCATION: Partagas 1)

08:00 – 08:20am: A Probabilistic Mixture Approach to Automatic Ellipse Detection
Lei Huang and Jinwen Ma
Peking University, Beijing, P. R. China

08:20 – 08:40am: BINS: Blackboard-based Intelligent Navigation System for Multiple Sensory Data Integration
Jun Jo, Yukito Tsunoda, Tommi Sullivan, Michael Lennon, Timothy Jo, and Yong-Sik Chun
Griffith University, Australia; All Saints Anglican College, Australia; Korea Aerospace Research Institute, Korea

08:40 – 09:00am: Self-Calibration Of Colorimetric Parameters In Vision Systems For Autonomous Mobile Robots
Antonio J. R. Neves, Alina Trifan, Bernardo Cunha
Institute of Electronics and Telecommunications Engineering of University of Aveiro (IEETA-UA), Aveiro, Portugal

09:00 – 09:20am: Fast and Robust Human Detection Method in Range Map of Complex Environment
Moon-soo Ra, Hoon Jo, Whoi-Yul Kim
Hanyang University, Seoul, Korea

09:20 – 09:40am: Fingerspelling Alphabet Recognition Using A Two-level Hidden Markov Model
Shuang Lu, Joseph Picone, Seong Kong
Temple University, PA, USA

09:40 – 10:00am: Evaluation of Color Spaces for User-supervised Color Classification in Robotic Vision
Alina Trifan, Antonio J. R. Neves, Bernardo Cunha
Institute of Electronics and Telecommunications Engineering of University of Aveiro (IEETA-UA), Aveiro, Portugal

10:00 – 10:20am: Detecting Object Bending with Complex Polynomial Fitting
Hongjun Su and Hong Zhang
Armstrong Atlantic State University, Savannah, Georgia, USA

10:20 – 10:40am: BREAK
SESSION 14-IPCV: (CONCURRENT SESSION WITH SESSION 15-IPCV)
IMAGE RECONSTRUCTION & RESTORATION + SEGMENTATION ALGORITHMS
AND APPLICATIONS
Co-Chairs: Julian Lamas-Rodriguez, Centro de Investigacion en
Tecnoloxias da Informacion (CITIUS), Spain;
Dr. Dasari Haritha,
Jawaharlal Nehru Technological University Kakinada, India
July 25, 2013 (Thursday); 01:40pm - 05:40pm
(LOCATION: Cohiba 6)

01:40 - 02:00pm: Binary Code Pattern Unwrapping Technique in Fringe Projection Method
Reza Talebi, Julia Johnson, Amr Abdel-Dayem
Laurentian University, Sudbury, Ontario, Canada

02:00 - 02:20pm: Image Reconstruction for Arbitrarily Spaced Data Using Curvature
Interpolation
William T. Cordell, Hakran Kim, Jeffrey L. Willers, Seongjai Kim
Mississippi State University, Mississippi, USA

02:20 - 02:40pm: Iterative Refinement by Smooth Curvature Correction for PDE-based
Image Restoration
Anup Gautam, Jihee Kim, Doeun Kwak, Seongjai Kim
Mississippi State University, Mississippi, USA

02:40 - 03:00pm: Integration of Domain Specific Information in the Form of Color
Homogeneity into MRF Based Image Segmentation
Ozge Oztimur Karadag and Fatos T. Yarman Vural
Middle East Technical University, Ankara, Turkey

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: BYY Harmony Learning of t Mixtures and Its Application to Unsupervised
Image Segmentation
Chenglin Liu, Zhijie Ren, Jinwen Ma
Peking University, Beijing, P. R. China

03:40 - 04:00pm: Automatic Segmentation and Classification of Multiple Coronal Mass
Ejections from Coronagraph Images
Matthew Jacobs, Lin-Ching Chang, Antti Pulkkinen
The Catholic University of America, Washington, D.C., USA;
NASA Goddard Space Flight Center, Greenbelt, Maryland, USA

04:00 - 04:20pm: FLAD-Feature Based Locally Adaptive Diffusion
Ajay K. Mandava, Emma E. Regentova, George Bebis
University of Nevada, Las Vegas, Nevada, USA;
University of Nevada, Reno, Nevada, USA

04:20 - 04:40pm: FREE SLOT

04:40 - 05:00pm: FREE SLOT

05:00 - 05:20pm: FREE SLOT

05:20 - 05:40pm: FREE SLOT
SESSION 15-IPCV:  (CONCURRENT SESSION WITH SESSIONS 14-IPCV & part of 12-IPCV)
TOPICS IN IMAGE PROCESSING, COMPUTER VISION, & PATTERN RECOGNITION:
LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Adil Khan, Northern Kentucky University, Kentucky, USA
July 25, 2013 (Thursday); 10:40am - 05:00pm (at the latest)
(LOCATION: Partagas 1)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non-registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. (A 20-minute BREAK at 03:00pm.)

0. Image Compression Ratio Enhancement Based On Conformal Mapping
Hamdy M. Mousa, Mostafa A. Ahmed, Ashraf El-Sisi
Menoufia University, Menofia, Egypt
0. A Fully Automatic Ship Localization Algorithm For Complex Backgrounds
Irene Camino-Garcia and Udo Zolzer
Helmut Schmidt University, Hamburg, Germany
0. Grey Forecasting Model for Blinking in Video-Oculography
Xuejun Chen, Yongming Yang, Wei He, Yuxing Mao
State Key Laboratory of Power Transmission Equipment & System Security and New Technology, Chongqing University, P. R. China; Department of EE, Putian University, Putian, P. R. China
0. Acoustic Signal Processing via Neural Network Towards Motion Capture Systems
E. Volna, M. Kotyrba, R. Jarusek
Dept of Informatics & Computers, University of Ostrava, Czech Republic
0. Comparing Hand-Gesture and Finger-Touch Interfacing to Navigate Bulk Image-Sequence Data
V. Du Preez, E. P. Clarkson, S. Innes, D. Q. Quach, K. A. Hawick
Massey University, Auckland, New Zealand

12:20 - 01:20pm: LUNCH (On Your Own)

0. An Improved Parallel Eight Direction Prewitt Edge Detection Algorithm
Mohammed Mohammed and Gita Alaghband
University of Colorado Denver, Colorado, USA
0. Edge Detection in X-ray Computed Tomography Images Using Weibull Distribution
Wafaa Kamel Al-Jibory and Ali El-Zaart
Beirut Arab University (BAU), Beirut, Lebanon
0. Python - A Computational Tool for Biomedical Signal Processing
Hari V S, Jagathy Raj V P, Gopikakumari R
Cochin University of Science and Technology, India; College of Engineering, Kerala, India
0. Educational Effectiveness of Using a Shared Virtual Immersive Environment for Teaching English as Second Language
Diego Torres and Helmuth Trefftz
Universidad EAFIT, Colombia
0. Real-time Edge Detection via Different of Shifted Image
Kiseon Jeong, Moonyong Jin, Sook Yoon, Dong Sun Park
Chonbuk National University, Korea; Mokpo National University, Korea; IT Convergence Research Center, Jeonbuk, Korea
0. A Content Based Image Retrieval System Using Back Propagation Neural Network
Syed Afaq Husain and Fauzia Sher Akbar
King Faisal University; Riphah International University, Saudi Arabia
O. A Fuzzy Metadata to Index and Retrieve Images of Roman Mosaics
   Wafa Maghrebi, Mohamed A. Khabou, Adel M. Alimi
   National Engineering School, Sfax, Tunisia;
   University of West Florida, University Parkway, Pensacola, USA
O. The Enhancement of Solar Distillation Using Image Processing and Neural
   Network Sun Tracking System
   Omar Badran and Ismail Arafat
   Al-Balqa' Applied University, Amman, Jordan
O. Improvised Formulation of Scale Invariance for Use of Geometric Moment
   Invariant Functions in Real Time Image Processing
   Vazeerudeen Abdul Hameed and Siti Mariyam Shamsuddin
   Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia
O. Using Digital Image Processing Solutions For Recognition Offside
   Instead
   of Assistant Referees
   Mohammad Javad Assadifard and Mahdi Javanmard
   Payam e Noor University, Tehran, Iran
SESSION 9-PDPTA: CLUSTER COMPUTING + MULTI-CORE, GPU, FPGA PROCESSING & APPLICATIONS
Co-Chairs: Mohsen M. Doroodchi, Cardinal Stritch University, Wisconsin, USA
July 25, 2013 (Thursday); 08:00am - 10:20am
(LOCATION: Cohiba 10)

08:00 - 08:20am: Exploiting Heterogeneous Systems: Keccak on OpenCL
Fabio Daencicio Pereira, Allan Mariano de Souza, and Edward David Moreno Ordenez
University Center Euripides of Marilia - SP, Brazil; Federal University of Sergipe - SE, Brazil

08:20 - 08:40am: GPU Acceleration of a Genetic Algorithm for the Synthesis of FSM-based Bimodal Predictors
Martin Burtscher and Hassan Rabeti
Texas State University-San Marcos, Texas, USA

08:40 - 09:00am: Cluster-SkePU: A Multi-Backend Skeleton Programming Library for GPU Clusters
Mudassar Majeed, Usman Dastgeer, Christoph Kessler
IDA, Linkoping University, Linkoping, Sweden

09:00 - 09:20am: DEF-G: Declarative Framework for GPU Environment
Robert Senser and Tom Altman
University of Colorado Denver, Colorado, USA

09:20 - 09:40am: A Fast Implementation of Parallel Discrete-Event Simulation on GPGPU
Chung-Ta King, Che-Rung Lee, Vernon Rego, Janche Sang
National Tsing Hua University, HsinChu, Taiwan; Purdue University, West Lafayette, Indiana, USA; Cleveland State University, Ohio, USA

09:40 - 10:00am: A GPU-based Multiresolution Pipeline for Compressed Volume Rendering
Julian Lamas-Rodriguez, Francisco Arguello, Dora B. Heras
Centro de Investigacion en Tecnoloxias da Informacion (CITIUS), Spain; University of Santiago de Compostela, Spain

10:00 - 10:20am: Optimizing Data Locality for Iterative Matrix Solvers on CUDA
Raymond Flagg, Jason Monk, Yifeng Zhu, Bruce Segee
University of Maine, Orono, Maine, USA

10:20 - 10:40am: BREAK

SESSION 10-PDPTA: (CONCURRENT SESSION WITH PART OF SESSION 12-PDPTA)
SYSTEMS SOFTWARE + PROGRAMMING MODELS + THREADS + CACHING + FILE SYSTEMS + TESTING & MONITORING METHODS
Co-Chairs: Prof. Aleardo Manacero, Paulista State University, Brazil
July 25, 2013 (Thursday); 10:40am - 03:00pm
(LOCATION: Cohiba 10)

10:40 - 11:00am: Write Buffer Sharing Control in SMT Processors
Yilin Zhang and Wei-Ming Lin
The University of Texas at San Antonio, Texas, USA
11:00 - 11:20am: A Flexible and Adaptable Distributed File System
Silas Evandro Nachif Fernandes, Renata Spolon Lobato, Aleardo Manacero Jr., Roberta Spolon, Marcos A Cavenaghi
UNESP - Sao Paulo State University, Brazil

11:20 - 11:40am: Optimizing the Use of the Hard Disk in MapReduce Frameworks for Multi-core Architectures
Tharso Ferreira, Antonio Espinosa, Juan Carlos Moure, and Porfidio Hernandez
University Autonoma of Barcelona, Spain

11:40 - 12:00pm: Application Characteristic Of Many-Tasking Execution Models
Timur Gilmanov, Matthew Anderson, Maciej Brodowicz, Thomas Sterling
Center for Research in Extreme Scale Technologies (CREST), Indiana University, Bloomington, Indiana, USA

12:00 - 12:20pm: Actions, Objects, and Subjects
Hannu-Matti Jarvinen
Tampere University of Technology, Finland

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Efficient Replacement Policy for Sub-Block Cache Architectures
Oluleye Olorode and Mehrdad Nourani
University of Texas at Dallas, Richardson, Texas, USA

01:40 - 02:00pm: Locality Analysis for Characterizing Applications Based on Sparse Matrices
Noboru Tanabe, Sonoko Tomimori, Masami Takata, Kazuki Joe
R & D Center, Toshiba Corporation, Kanagawa, Japan; Nara Women's University, Nara, Japan

02:00 - 02:20pm: Runtime Support for Dynamic Skeletons Implementation
Javier Fresno, Arturo Gonzalez-Escribano, Diego R. Llanos
Departamento de Informatica, Edif. Tecn. de la Informacion, Universidad de Valladolid, Valladolid, Spain

02:20 - 02:40pm: Fully Automatic Parallel Programming
Bryant Nelson and Nelson Rushton
Texas Tech University, Lubbock, Texas, USA

02:40 - 03:00pm: FREE SLOT

03:00 - 03:20pm: BREAK

SESSION 11-PDPTA: (CONCURRENT SESSION WITH PART OF SESSION 12-PDPTA)
PERFORMANCE EVALUATION, ESTIMATION, AND RELATED ISSUES
Co-Chairs: Dr. Jack K. Horner,
JKH Consulting, Los Alamos, New Mexico, USA;
Prof. Shihchung Chiang, Chung Hua University, Taiwan, ROC
July 25, 2013 (Thursday); 03:20pm - 04:40pm
(LOCATION: Cohiba 10)

03:20 - 03:40pm: Tuning Master/Worker Applications: A Practical Use Case with MATE
Andrea Martinez, Anna Sikora, Eduardo Cesar, Joan Sorribes
Universitat Autonoma de Barcelona, Barcelona, Spain

03:40 - 04:00pm: Performance Model for the Impact of Hardware Characteristics in Accelerated Processing Units
Mario Chapa and Sato Hiroyuki
Graduate School of Engineering of the University of Tokyo, Japan; Information Technology Center, The University of Tokyo, Japan
SESSION 12-PDPTA: (CONCURRENT SESSION WITH SESSIONS 11-PDPTA AND PART OF 10-PDPTA)
TOPICS IN PARALLEL & DISTRIBUTED PROCESSING TECHNIQUES & APPLICATIONS

Co-Chairs: Meenakshi Shrivastava, Rochester Institute Of Technology, USA
July 25, 2013 (Thursday); 01:20pm - 04:40pm
(LOCATION: Cohiba 11)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long. (A 20-minute BREAK at 03:00pm.)

0. A Graphical Language for Development of Parallel Applications
Jose Luis Quiroz Fabian, Graciela Roman Alonso, Miguel Alfonso Castro Garcia, Manuel Aguilar Cornejo, Jorge Buenabad Chavez
Universidad Autonoma Metropolitana Iztapalapa, Mexico;
Centro de Investigacion y de Estudios Avanzados del Instituto Politecnico Nacional, Mexico

0. Optimizing Performance for Coalition Structure Generation Problems' IDP Algorithm
Francisco Cruz-Mencia, Jesus Cerquides, Antonio Espinosa, Juan Carlos Moure, Juan Antonio Rodriguez-Aguilar
Universitat Autonoma de Barcelona (CAOS-UAB), Spain; Institut d'Investigacio en Intel-ligencia Artificial (IIIA-CSIC), Spain

0. DLML-IO: a library for processing large data volumes
Luis Alberto Perez Suarez, Miguel Alfonso Castro Garcia, Graciela Roman Alonso, Manuel Aguilar Cornejo, Jorge Buenabad Chavez
Universidad Autonoma Metropolitana unidad Iztapalapa, Mexico

0. Partial Parallelization of the Successive Projections Algorithm Using Compute Unified Device Architecture
Lauro Cassio Martins de Paula, Anderson da Silva Soares, Telma Woerle de Lima, Wellington Santos Martins, Arlindo Rodrigues Galvao Filho, Clarimar Jose Coelho
Federal University of Goias, Brazil

0. Partial Reconfiguration Of a Linear Recursive Process and Application On [Q,R]-Decomposition
Etienne Aubin Mbe Mbock
University of Heidelberg, Applied University of Furtwangen, Germany

0. Control Synthesis of For-Loops in a Pipelined Digital Systems
Heung Sun Yoon, Jae Young Park, Jong Tae Kim
Sungkyunkwan University, Suwon, GyeongGi-Do, South Korea
O. A New Key Negotiation Method Based on Fuzzy Extractor Technology for Body Sensor Networks
H. Zhao, M. Shu, J. Qin, and J. Hu
University of New South Wales, Canberra, Australia

O. A Method for Eliminating Abnormal Values of Received Signal Strength Indicator (RSSI) in WLAN
Yanfang Jing, Minglei Shu, Ming Yang, Huawei Zhao, Jiankun Hu
Liaocheng University, P. R. China; Shandong Provincial Key Laboratory of Computer Network, Shandong Computer Science Center, Jianan, P. R. China;
Shandong University of Finance and Economics, P. R. China;
University of New South Wales, Canberra, Australia

O. Dynamic Scheduling Scheme for Linearly Extensible Multiprocessor Systems
Abdus Samad, M. Qasim Rafiq, Omar Farooq
Aligarh Muslim University, Aligarh, India
SESSION 12-SAM: CYBERSECURITY EDUCATION
Chair: Prof. George Markowsky, University of Maine, USA
July 25, 2013 (Thursday); 08:00am - 10:00am
(LOCATION: Cohiba 11)

08:00 - 08:20am: The 2013 NECCDC - Lessons Learned
George Markowsky, Daryl Johnson, Andy Moody, Ray Soucy
University of Maine, Orono, Maine, USA

08:20 - 08:40am: Experiences with the Promise and Potential of Service Learning in an
Online Information Security Curriculum
Raymond Albert
University of Maine at Fort Kent, Fort Kent, Maine, USA

08:40 - 09:00am: Visualizing Cybersecurity Events
George Markowsky and Linda Markowsky
University of Maine, Orono, Maine, USA

09:00 - 09:20am: XSS Cookie Injection Covert Channel
Kyle D. Feeney and Daryl Johnson
Networking, Security & Systems Administration,
Rochester Institute of Technology, Rochester, New York, USA

09:20 - 09:40am: Composite Covert Channels through EVE Online
Ross Radford and Daryl Johnson
Networking, Security & Systems Administration,
Rochester Institute of Technology, Rochester, New York, USA

09:40 - 10:00am: SSDP Covert Channel
Wesley Delva and Daryl Johnson
Networking, Security & Systems Administration,
Rochester Institute of Technology, Rochester, New York, USA

10:00 - 10:40am: BREAK

SESSION 13-SAM: NETWORK SECURITY
Co-Chair: Dr. Levent Ertaul, California State University
East Bay, USA and Dr. Alan Kebert, The University of Southern
Mississippi, USA
July 25, 2013 (Thursday); 10:40am - 01:00pm
(LOCATION: Cohiba 11)

10:40 - 11:00am: Private Proximity Testing for Location Based Services
L. Ertaul, A. Balluru, A. Perumalsamy
Math and Computer Science Department, California State University,
East Bay, California, USA

11:00 - 11:20am: DROP-FAST: Using Cloud for Defending Against DDoS
Rashad Aliyev, Dongwon Seo, Heejo Lee
Department of Computer Science and Engineering, Korea University,
Seoul, Republic of Korea
11:20 - 11:40am: Challenges of Kerberos Variance in with High QoS Expectations
Yoney Kirsal-Ever, Yonal Kirsal, Alberto Polzonetti, Leonardo Mostarda, and Enver Ever
School of Science & Technology, Middlesex University, London, UK;
School of Science & Technology, University of Camerino, Italy

11:40 - 12:00pm: Port Knocking - An Additional Layer of Security for SSH and HTTPS
Jigar A. Raval and Samuel Johnson
Computer Center, Physical Research Laboratory, Gujarat, India

12:00 - 12:20pm: Implementation of Boneh Protocol 3 in Location Based Services (LBS)
to Provide Proximity Services
L. Ertaul, N. Shaikh, S. Kotipalli
California State University East Bay, Hayward, California, USA

12:20 - 01:00pm: Privacy-Aware Proximity Based Service Using Hide and Crypt
Protocol: Implementation
L. Ertaul, B. F. S. Imagnu, S. Kilaru
California State University East Bay, Hayward, California, USA
**SESSION 10—SERP:**  
**USABILITY STUDIES + COST MANAGEMENT + SOFTWARE TESTING, ANALYSIS, VALIDATION, & VERIFICATION + PERFORMANCE STUDIES**

Co-Chairs: Dr. Jang Yeol Kim, Korea Atomic Energy Research Institute (KAERI), South Korea  
July 25, 2013 (Thursday); 08:00am - 12:00noon  
(LOCATION: Montecristo 1)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Training Users of Accounting Information Systems for their Satisfaction, Decision-making, and Competitiveness  
Jose-Melchor Medina, Yolanda Loera, Karen Gonzalez, Alberto Mora  
Universidad Autonoma de Tamaulipas, Mexico

08:40 - 09:00am: An Open Source Platform for Collaborative Remote Usability Studies  
Daniel Lyng Madsen and Erik Frokjaer  
Copenhagen University, Denmark

09:00 - 09:20am: Study of Data Imputation on the Predictive Value of Software Attributes in the ISBSG-10 Data Set  
Adrian S. Barb and Kailasam Satyamurthy  
Penn State University, Malvern, Pennsylvania, USA

09:20 - 09:40am: Finding The Relationship Between Software Testing Effort and Software Quality Metrics  
Nurhan Yagci and Kursat Ayan  
Sakarya University, Turkey

09:40 - 10:00am: Examining the Performance of Java Static Analyzers  
Kevin Daimi, Shadi Banitaan, Kathy Liszka  
The University of Detroit Mercy, Detroit, Michigan, USA; The University of Akron, Akron, Ohio, USA

10:00 - 10:20am: Verification and Validation Experience of Safety-grade Optical Modem for Core Protection Calculator (CPC)  
Jang Yeol Kim, Kwang Seop Son, Young Jun Lee, Se Woo Cheon, Kyoung Ho Cha, Jang Soo Lee, Kee Choon Kwon  
Korea Atomic Energy Research Institute (KAERI), Yuseong-gu, Daejeon, Republic of Korea

10:20 - 10:40am: BREAK

10:40 - 11:00am: Findings of Expert Validation and Review of the Technology Enhanced Interaction Framework  
Kewalin Angkananon, Mike Wald, Lester Gilbert  
The University of Southampton, UK
11:00 - 11:20am: Experimental Evaluation of Static Source Code Analysis tools
khalid Alemerien and Kenneth Magel
North Dakota State University, Fargo, North Dakota, USA

Benson Moyo, Peeps Gonde, Ndabezinhle Soganile, Gilbert Dzawo, and Kudakwashe Madzima
University of Venda, South Africa; National University of Science and Technology, Bulawayo, Zimbabwe

11:40 - 12:00pm: FREE SLOT

12:00 - 01:00pm: LUNCH

SESSION 11-SERP: AGILE SOFTWARE METHODS + SOFTWARE ENGINEERING & EMBEDDED SYSTEMS
Co-Chairs: Dr. Adrian Barb, Penn State University, USA
July 25, 2013 (Thursday); 01:00pm - 03:40pm
(LOCATION: Montecristo 1)

01:00 - 01:20pm: Agile Project-Based Teaching and Learning
Dagmar Monett
Berlin School of Economics and Law, Germany

01:20 - 01:40pm: Study of Agility in Mobile Application Development
Vanessa N. Cooper and Hisham M. Haddad
Kennesaw State University, Kennesaw, Georgia, USA

01:40 - 02:00pm: A Model-Based Agile Process for DO-178C Certification
David J. Coe and Jeffrey H. Kulick
University of Alabama in Huntsville, Alabama, USA

02:00 - 02:20pm: IEEE std 829-2008 and Agile Process - Can They Work Together?
Ning Chen
California State University, Fullerton, California, USA

02:20 - 02:40pm: Video Processing for Motion Tracking of Safety Critical Systems
Travis Cleveland, David J. Coe, Jeffrey H. Kulick
University of Alabama in Huntsville, Alabama, USA

02:40 - 03:00pm: Strengthening Interrupt Controls in Embedded Systems by Cooperation between Windows CE and REMON
Shigeki Nankaku, Hisao Koizumi, Akira Fukuda
Osaka Electro-Communication University, Japan;
Tokyo Denki University, Japan; Kyushu University, Japan

03:00 - 03:20pm: Independent Verification And Validation Of Software For Weapon Management System Of A High Performance Aircraft
Sudha Srinivasan, Rekha R., K. Karunakar
Aeronautical Development Agency, Ministry of Defence, Government of India, Bangalore, India

03:20 - 03:40pm: FREE SLOT
SESSION 12-SERP: TOPICS IN SOFTWARE ENGINEERING + FOUNDATIONS OF COMPUTER SCIENCE: LATE BREAKING PAPERS AND POSITION PAPERS + LATE PAPERS
Co-Chairs: Dr. Tongjun Ruan, Reservoir Evaluation & Advanced Computational Technologies Group, Petroleum Recovery Research Center of New Mexico Tech., USA
July 25, 2013 (Thursday); 03:40pm - 06:30pm
(LOCATION: Montecristo 1)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non-registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session. Each talk can be 15 to 20 minutes long.

O. Fully-Functional Alarm Clock
   Ryan Prystash, Eric Noble, Kasey Castanier, Houngh Choi, JT Wheeler, and Roger Lee
   Central Michigan University, Michigan, USA
O. Dynamic Registration Forms
   Joshua Edinborough, Matthew Binder, Andrew Bryant, Blayne Dennis, Troy Johnson, and Roger Lee
   Software Engineering & Information Technology Institute, Central Michigan University, Michigan, USA
O. Service Composition in the Context of Services Oriented Architecture
   Ayaz Mahmood and Muhammad Ibrahim Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), Islamabad, Pakistan
O. An Interface Generator For Customizable Fuzzy Expert System
   Tongjun Ruan and Robert Balch
   Reservoir Evaluation & Advanced Computational Technologies Group, Petroleum Recovery Research Center of New Mexico Tech., USA
O. Lessons Learned: Porting Java Applications to Android
   Norfolk State University, Virginia, USA
O. Template Generation in a Tiered Architecture - Practical C# class templates from DDL statements
   James duPuis and Daniel Riehl (via Prof. Roger Lee)
   Central Michigan University, Mount Pleasant, Michigan, USA
O. The Influence of Human Aspects in Software Process Improvement: a Brazilian Public Company Study
   Regina Albuquerque, Andre Bibiano, Rosilene Fernandes, Daniel Araujo, Andreia Malucelli, and Sheila Reinehr
   Post-graduate Program in Information Technology at PUCPR - Pontificia Universidade Catolica do Parana, Brazil
O. Software Development Techniques
   Amninder S. Narota and Roger Lee
   Central Michigan University, Michigan, USA
O. Use of Closures to Engineer Software for a Family of Numerical Simulation Models
   K. A. Hawick and E. P. Clarkson
   Computer Science, Massey University, Auckland, New Zealand
O. A Method and a Tool for Evaluating the Quality of an SOA
   Riad Belkhatir, Mourad Oussalah, Arnaud Viguier
   University of Nantes, Nantes, France; Research and Development Department, BeOtic, Reze, France
O. Methodology for Ontology Development in Support to the MPS Model for Software
   Alessandro Viola Pizzoletto and Hilda Carvalho de Oliveira
   Institute of Geosciences and Exact Sciences, Universidade Estadual Paulista, Unesp, Rio Claro, Brazil
O. Design of a Software Engineering Process to Develop Business Intelligence Solutions: An Approach From the Soft System Methodology
   Alexander Bustamante, Ernesto Galvis, Luis Carlos Gomez
   Universidad Industrial De Santander, Colombia; Universidad Del Magdalena, Colombia
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