4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007



The 4th International Conference on Innovations in Information Technology

http://www.it-innovations.ae

November 18 – 20, 2007 Madinat Jumeirah, Dubai, United Arab Emirates

CONFERENCE PROGRAM

SUNDAY, NOVEMBER 18, 2007 (Joharah Ballroom)

Johara I Student Posters Session

08:00 - 10:00:	Registration
10:00 - 10:30:	Opening ceremony
10:30 - 10:50:	Keynotes: Keynote I: Dr Atta-Ur-Rahman, Federal Minister, Higher Education Commission, Pakistan Keynote 2: Mr. Rama Raju, Co-founder/CEO, Satyam, India Keynote 3: Dr. Thomas Andersson, President, Jönköping University, Sweden
11:30 - 11:45:	Coffee Break
11:45 - 12:40:	Humanoid Robotics Session: Is it human or is it a robot Dr. Nikolaos Mavridis, Interactive Robots and Media Lab, Director, UAE University, UAE Dr. David Hanson, Founder/Chief Scientist, Hanson Robotics, USA Dr. Hiroshi Ishiguro, Intelligent Robotics Lab., Director, Osaka University, Japan Dr. Jun Ho Oh, Director, Humanoids Laboratory, Korean Institute of Technology, Korea
12:40 - 14:00:	Lunch (sponsored by Innovations'07)

11:30 - 15:30:

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

SUNDAY, NOVEMBER 18, 2007

14:00 - 15:40

Ioharah: VIP Session

Mr. Mike Carr, Director Research & Venturing British Telecom, UK

Mr. Michael D. King, Director, Global Education Industry, IBM Corporation, USA

Mr. Aseem Gupta, CEO, Visionaire, UAE

Dr. Tarek Al Abbady, Director, Microsoft Research & Innovation Centre, Cairo, Egypt

Mr. Thiru P. Reddy, Vice President Business Development, Strand Lift Sciences, India

Dr. Sai Subramaniam, Sr. Vice President Solutions, Strand Lift Sciences, India

Session IB: Data Mining		
	Stéphane Azefack, University of Lyon, France	
Dynamic index selection in data warehouses	Kamel Aouiche, University of Quebec at Montreal, Canada	
	Jérôme Darmont, University of Lyon, France	
Designing a Well-Structured E-Shop Using	Asem Omari, University Düsseldorf, Germany	
Association Rule Mining	Stefan Conrad, University Düsseldorf, Germany	
Association Rule Mining	Sadet Alcic, University Düsseldorf, Germany	
The Development of an Objective Metric for	Owen Foley, Dublin City University, Ireland	
the Accessibility Dimension of Data Quality	Markus Helfert, Dublin City University, Ireland	
	Karel Klos, VSB - TU Ostrava, Czech Republic	
	Jana Kocibova, VSB - TU Ostrava, Czech Republic	
Web Page Analysis: Experiments Based on Web Patterns	Ondrej Lehecka, VSB - TU Ostrava , Czech Republic	
	Milos Kudelka, VSB - TU Ostrava, Czech Republic	
	Vaclav Snasel, VSB-TU of Ostrava, Czech Republic	
	Hana Rezankova, University of Economics, Czech Republic	
An efficient decision tree construction for	Nguyen Thi Van Uyen, Kyung Hee University, Korea	
large datasets	Tae Choong Chung, Kyung Hee University, Korea	

Session IC: Business and Process Management	
	John Shepherdson, British Telecommunications Plc., UK
Collaboration as a Reusable Component in	Nader Azarmi, British Telecommunications Plc., UK
Business Process Management	Habin Lee, Brunel University, UK
	Hyung Jun Ahn, Waikato University, Japan
An Advanced Planning and Scheduling	Raphael Dorne, British Telecom, UK
Platform for Service Enterprise	Chris Voudouris, British Telecom, UK
Platform for Service Enterprise	Gilbert Owusu, British Telecom, UK
Metrics for Evaluating Enterprise Systems' Architecture	Khalid Khawaja, American University in Dubai, UAE
Defining the Input Specifications for the Partitioning of Automobiles E/E Systems within a Model-Driven Development Scheme	Augustin Kebemou, Fraunhofer Institute for Software and Systems Engineering, Germany
	Ina Schieferdecker, Fraunhofer Institute for Open
	Communications Systems, Germany
	Ojo S.O, University of Botswana
A Formal Model for e-Healthcare Readiness	Olugbara O.O., University of Zululand, South Africa
Assessment in a Developing Country Context	George Ditsa, UAE University, UAE
	Adigun M. O., Xulu S.S., University of Zululand, South Africa

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

Session ID: Wireless Communication	ns I
Robustness Assessment of Intelligent Information	Ali Asadian, University of Tehran, Iran
Fusion Techniques in Navigation Systems	Behzad Moshiri, University of Tehran, Iran
Encountering Satellite Outage	Javad Rezaie, University of Tehran, Iran
Spectrum Allocation Algorithms for Uplink Sub- carriers in OFDMA-Based Cognitive Radio Networks	Tae-Hwan Kim, Sungkyunkwan University, Korea Tae-Jin Lee, Sungkyunkwan University, Korea
Simulation of adaptive antenna for interference	Rajab Legnain, University of Garyounis, Libya
reduction	Abdelsalam Ambarek, University of Garyounis, Libya
Channel Allocation to Reduce Co-channel Interference in Multi-cell Cognitive Radio Networks	Seung Su Han, Sungkyunkwan University, Korea Tae-Jin Lee, Sungkyunkwan University, Korea
Resource Allocation and Game Theoretic Scheduling in IEEE 802.16 Fixed Broadband Wireless Access Systems	Jayaparvathy.R, Coimbatore Institute of Technology, India S.Geetha, Coimbatore Institute of Technology, India

15:40 - 16:00 Coffee Break

16:00 - 17:40 (SUNDAY, NOVEMBER 18, 2007)	
Session 2A: Multimedia Communicat	tions
Data Taxonomy Procedure of Streaming Output of a Digital Video Broadcast via Satellite Receiver	I Made Murwantara, Universitas Pelita Harapan, Indonesia Arnold Aribowo, Universitas Pelita Harapan, Indonesia Pujianto Yugopuspito, Universitas Pelita Harapan, Indonesia
Multi-path Scheduling Algorithm for Real-Time Video Applications in Next-Generation Wireless Networks	Fernandez Juan Carlos, University of Tohoku, Japan Tarik Taleb, University of Tohoku, Japan Yushiaki Nemoto, University of Tohoku, Japan Nei Kato, University of Tohoku, Japan
Multimedia Processing in Wireless Sensor Networks	Hakan Öztarak, Middle East Technical University, Turkey Adnan Yazici, Middle East Technical University, Turkey Demet Aksoy, University of California Davis, USA Roy George, Clark Atlanta University, USA
Mobile Multiprotocol Label Switching	Sadia Ashraf, NUST, Pakistan Shoab A. Khan, NUST, Pakistan Naveed S. Khattak, NUST, Pakistan Abdur Rehman, NUST, Pakistan

Session 2B: Computer & Network Se	ecurity I
	Shuo Lu, Concordia University, Canada
	Yuan Hong, Concordia University, Canada
Access Control in e-Health Portal Systems	Qian Liu, Concordia University, Canada
·	Lingyu Wang, Concordia University, Canada
	Rachida Dssouli, Concordia University, Canada
Towards a better applicability of public key	Safuat Hamdy, UAE University, UAE
certificates	Saluat Hallidy, OAE Offiversity, OAE
Securing the Wireless LANs that is based on	Ghassan Kbar, American University of Dubai, UAE
Distributed Resource Management against	Wathiq Mansoor, American University of Dubai, UAE
internal attacks	vvauliq mailsoor, American Oniversity of Dubai, OAE

4th International Conference on Innovations in Information Technology

Copyright Protection in Overlay Multicast Communication	Emad Eldin Mohamed, UAE University, UAE
---	---

Session 2C: Ad Hoc and Sensor Networks I	
	Hamid Shokrzadeh, Islamic Azad University, Iran
Improving Directional Rumor Routing in	M. Mashaiekhi, Research Institute of Petroleum Industry,
Wireless Sensor Networks	Iran
	A. Nayebi, Research Institute of Petroleum Industry, Iran
On The Performance Of Directed Diffusion In	Lyes Khelladi, CERIST Center of Research
Dense Sensor Networks	Nadjib Badache, USTHB university, LSI Lab
Power Saving Deviation and Sudden Demise	Hafiz M. Asif, COMSATS Institute of Information
Effect of Cluster Head (CH) in the WEAC	Technology, Pakistan
Protocol	Tarek R. Sheltami, King Fahd University of Petroleum &
Frotocoi	Minerals, Saudi Arabia
Functional Testing of Wireless Sensor Node	Kashif Munir Virk, Technical University of Denmark,
_	Denmark
Designs	Jan Madsen, Technical University of Denmark, Denmark
	Ahmed Boukhalkhal, University of Laghouat, Algeria
	M. B. Yagoubi, University of Laghouat, Algeria
Simulation of Mobile Ad hoc Routing Strategies	M. Djoudi, University of Constantine, Algeria
	Ouinten Youcef, University of Laghouat, Algeria
	Mohamed Benmohammed, University of Constantine,
	Algeria

Session 2D: E-Learning & E-Society	
The Implementation of a Web-based 3D	Amirrudin Kamsin, University of Malaya, Malaysia
Multimedia Learning Prototype in Biology	Cha Gek Teng, University of Malaya, Malaysia
subject: BioID	Tay Lee Kee, University of Malaya, Malaysia
KEA - a Mathematical Knowledge Management	Sabina Jeschke, University of Stuttgart, Germany
System combining Web 2.0 with Semantic Web	Marc Wilke, University of Stuttgart, Germany
Technologies	Nicole Natho, TU Berlin, Germany
rectinologies	Olivier Pfeiffer, TU Berlin, Germany
	Chris Messom, Massey University, New Zealand
Operating System Virtualization to Support E-	Abdolhossein Sarrafzadeh, Massey University, New
learning with Affective Intelligent Tutoring	Zealand
Systems	Anton Gerdelan, Massey University, New Zealand
Systems	Martin Johnson, Massey University, New Zealand
	Jamshid Shanbehzadeh, Tarbiat Moalem University, Iran
	Madeth May, National Institute of Applied Sciences of
Duilding Intelligent Web based System for	Lyon, France
Building Intelligent Web-based System for	Sébastien George, National Institute of Applied Sciences
Efficient Tracking Learner's Communication Activities on Discussion Forums	of Lyon, France
Activities on Discussion Forums	Patrick Prévôt, National Institute of Applied Sciences of
	Lyon, France

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

20:00 - 22:00: (SUNDAY, NOVEMBER 18, 2007)

Gala Dinner

Keynote Speakers:

- (I) Dr. John Bowers, CTO Calient Networks, California, USA;
- (2) Mr. Roberto Saracco, IEEE USA and Telecom Italia;

Cisco Research Excellence Award;

Best Student Poster Award

Distinguished Scholar Award;

MONDAY, NOVEMBER 19, 2007

09:00 - 10:40	
Session 3A: Computer & Network Security II	
Implementation of the automated network vulnerability assessment	Jun Yoon, Korea Information Security Agency, Korea Won Tae Sim, Korea Information Security Agency, Korea
Bottleneck Analysis of Traffic Monitoring using	Abes Dabir, Carleton University, Canada
Wireshark	Ashraf Matrawy, Carleton University, Canada
XML based open tool for anomalies detection in firewall filtering rules	Mohammed Anis Benelbahri, High School of Telecommunication, Tunisia Adel Bouhoula, College of Telecommunications, Tunisia Zouheir Trabelsi, UAE University, UAE
Enabling Access Control and Privacy through Ontology	Mohammad M. R. Chowdhury, UniK-University Graduate Center, Kjeller, Norway Josef Noll, UniK-University Graduate Center, Kjeller, Norway Juan Miguel Gomez, Universidad Carlos III de Madrid, Spain

Session 3B: Fuzzy Computing & Neural Networks		
Using a Combination of Model Based and Intelligent methods in Automatic Landmark Detection in Cephalometry	Rahele Kafieh, Isfahan University of Medicine, Iran Saeed Sadri, Isfahan University of Technology, Iran Alireza Mehri, Isfahan University of Medicine, Iran Hamid Raji, Isfahan University of Medicine, Iran	
Comparing Two Models for Word Boundary Detection in a Phoneme Sequence Using Recurrent Fuzzy Neural Networks	Mohammad Reza Feizi Derakhshi, University of Science and Technology, Iran Mohammad Reza Kangavari, University of Science and Technology, Iran Elnaz Zafarani Moattar, Islamic Azad University Mahdi Aliyari Shorehdeli, K. N. Toosi University of Technology, Iran	
The Kalman Filter Information Fusion for Cement Mill Control Based on Local Linear	Amin Ramezani, University of Tehran, Iran Hamed Ramezani, University of Tehran, Iran	
Neuro-Fuzzy Model	Behzad Moshiri, University of Tehran, Iran	
Handwritten Character Recognition using Perceptual Fuzzy-Zoning and Class Modular Neural Networks	Lajish V L, Tata Consultancy Services, India	

4th International Conference on Innovations in Information Technology

Session 3C: Web Applications I	
Reverse Engineering of Web Based Systems	Abdelwahab Hamou-Lhadj, Concordia University, Canada Abdeslam En-Nouaary, Concordia University, Canada Khalid Sultan, Concordia University, Canada
Capturing Forms in Web Information Systems	Hui Ma, Massey University, New Zealand Rene Noack, University of Kiel, Germany Faizal Riaz-ud-Din, Massey University, New Zealand Klaus-Dieter Schewe, Massey University, New Zealand Bernhard Thalheim, University of Kiel, Germany
A Keyword Searching Algorithm For Search Engines	Vishal Gupta, Institute of Management Studies, India
CoolRank: A Social Solution for Ranking Bookmarked Web Resources	Hend Al-Khalifa, King Saud University, Saudi Arabi
Evolution of Interdependency model based on behavioral analysis of User, Search Engine and Advertiser in Online Advertising	Shruti Kohli, Birla Institute of Technology, India Ela Kumar, YMCA Institute of Engineering, Faridabad, India

Session 3D: Pervasive Computing I	
Power Line Communications: An Overview of Applications, Technology and the HomePlug Standards	Muhammad Salman Yousuf, King Fahd University of Petroleum and Minerals, Saudi Arabia Mustafa El-Shafei, King Fahd University of Petroleum and Minerals, Saudi Arabia
Innovative technologies for the creative industries: Advanced human-machine interfaces for dynamic performance effects	Abdolhossein Sarrafzadeh, Massey University, New Zealand Jamshid Shanbehzadeh, Tarbiat Moalem University, Iran Chris Messom, Massey University, New Zealand Martin Johnson, Massey University, New Zealand
A Hybrid Framework to Program Smart Environments	Aiman Erbad, University of British Columbia, Canada Charles Krasic, University of British Columbia, Canada
The Flexible Service Composition Framework for Networked Appliances	Chatchawin Namman, King Mongkut's Institute of Technology North Bangkok, Thailand Anirach Mingkhwan, King Mongkut's Institute of Technology North Bangkok, Thailand Omar Abuelma'atti, Liverpool John Moores University, UK Madjid Merabti, Liverpool John Moores University, UK
Knowledge Cities: The Future of Cities in the Knowledge-based Economy	Kostas Ergazakis, National Technical University of Athens, Greece Kostas Metaxiotis, Greek Ministry of Economy and Finance, Greece Emmanouil Ergazakis, National Technical University of Athens, Greece John Psarras, National Technical University of Athens, Greece

Morjaan I: Tutorial I.a	
RFID Technology: A methodology of evaluating	Samuel Fosso Wamba, Polytechnic School of Montreal,
its impact through modeling and simulation	Canada

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

Morjaan 2: Tutorial 2.a	
Developing wireless products in the industrial,	
Scientific & Medical (ISM) Band, The Next Big	Iboun Taimiya Sylla, Texas Instruments Inc, USA
Thing: The case of Zigbee Standard.	

10:40 - 11:00 Coffee Break

11:00 - 12:40 (MONDAY, NOVEMBER 19, 2007)	
Session 4A: Genetic Algorithms	
Similarity of XML Schema Fragments Based on	Irena Mlynkova, Charles University, Czech Republic
XML Data Statistics	Jaroslav Pokorny, Charles University, Czech Republic
	Elnaz Zafarani Moattar, Islamic Azad University, Iran
Job Scheduling in Multi Processor Architecture	Amir M. Rahmani, Islamic Azad University, Iran
Using Genetic Algorithm	Mohammad Reza Feizi Derakhshi, University of Science
	and Technology, Iran
An Evolutionary Approach for Partitioning	Ali Asghar Pourhaji Kazem, University of Tabriz, Iran
Weighted Module Dependency Graphs	Shahriar Lotfi, University of Tabriz, Iran
An Evolutionary Data Mining Model for Fuzzy	Mohammad Amin Riji, University of Mashhad, Iran
Concept Extraction	Milani Fard, Ferdowsi, University of Mashhad, Iran
Concept Extraction	Mohammad R. Akbarzadeh, University of Mashhad, Iran
	Amir Najafi-Ardabili, University of Ferdowsi, Iran
	Danial Qarouni-Fard, University of Ferdowsi, Iran
	Mohamad-Reza Andalibizadeh, Shahid Beheshti
HGGASA: An Annealing Grouping Genetic	University, Iran
Algorithm for Finding Feasible Timetables	Ooldooz Ghorbani, Ferdowsi University, Iran
	Mohammad Sadegh Sheikhaei, Amirkabir University of
	Technology, Iran
	Javad Mohammadzadeh, University of Tehran, Iran

Session 4B: Wireless Communication	ns II
Designing High Available Satellite Ground	Kayvan Farzaneh, ITRC, Iran
Stations	Leila Mohammady, ITRC, Iran
	Azam Eidi, ITRC, Iran
The Performance of a Diversity-based MC-	Mohamed E. Khedr, Arab Academy for Science and
CDMA in the Presence of Frequency Offset and	Technology, Egypt
Inter-Carrier Interferences	Mohamed M. Ramadan, Arab Academy for Science and
	Technology, Egypt
Efficient Utilization of Orthogonal Variable	Mohamed E. Khedr, Arab Academy for Science and
Spreading Factor Trees Using Two levels Of	Technology, Egypt
Hierarchies and Adaptive Rate Control	Roshdy A. AbdelRasoul, Arab Academy for Science and
Mechanism	Technology, Egypt
	Mahmoud M. Youssef, Nilesat, Cairo, Egypt
CHASS-M: Channel Assignment for Fair Payoff	Hyun-Ki Kim, Sungkyunkwan University, Korea
Based on Game Theory for Wireless Multi-hop	Tae-Jin Lee, Sungkyunkwan University, Korea
Networks	

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

Session 4C: Computing Systems	
Reconfigurable and Area-Efficient Architecture for Symmetric FIR Filters with Powers-of-Two Coefficients	Dongwon Lee, Samsung Electronics, Korea
Performance Effect of Localized Thread Schedules in Heterogeneous Multi-Core Processors	Fadi Sibai, UAE University, UAE
On Making Intelligence Performance- Inconspicuous in 3D Games	Fadi Sibai, UAE University, UAE
Using Text-to-Speech Engine to Improve the Accuracy of a Speech-Enabled Interface	Yacine Benahmed, University of Moncton, Canada Sid-Ahmed Selouani, University of Moncton, Canada Habib Hamam, University of Moncton, Canada Douglas O'Shaughnessy, INRS-EMT Telecommunication, Canada
The Implementation of a Persistent Type-Safe Object-Oriented Programming Language	Omar M. Sallabi

Session 4D: Special Session: IT Applie	cations in Electric Power Systems I
Power Systems Monitoring & Control Centers Sharing SCADA/EMS Information in the Age of Enterprise Mobility.	Alaa Maghiub, TRANSCO Najeeb Dandachi, TRANSCO
High Voltage Circuit Breaker Modeling for Online Model-Based Monitoring and Diagnosis.	H. H. Zeineldin, University of Waterloo, Canada E. F. El-Saadany, University of Waterloo, Canada M. M. A. Salama, Univeristy of Waterloo, Canada Z. Wang, ABB Corporate Research, Canada Yasser Mohamed, University of Waterloo, Canada
Virtual SCADA Simulation System for Power Substation	Khalid Darwish, American University of Sharjah, UAE A. R. Al-Ali, American University of Sharjah, UAE Rached Dhaouadi, American University of Sharjah, UAE
An Intelligent-Based Technique for Locating Switched Capacitors in the Distribution Systems Using High Frequency	Ahmed Abu-Elanien, University of Waterloo, Canada M. M. A. Salama, Univeristy of Waterloo, Canada
PC-Based SCADA Simulator for Distribution System Analysis	Mohamed Awad, UAE Awad I. Ibrahim, UAE

Morjaan I: Tutorial I.b	
RFID Technology: A methodology of evaluating	Samuel Fosso Wamba, Polytechnic School of Montreal,
its impact through modeling and simulation	Canada

Morjaan 2: Tutorial 2.b	
Developing wireless products in the industrial,	
Scientific & Medical (ISM) Band, The Next Big	Iboun Taimiya Sylla, Texas Instruments Inc, USA
Thing: The case of Zigbee Standard.	

12:40 - 14:00: Lunch Break

4th International Conference on Innovations in Information Technology

14:00 - 15:40 (MONDAY, NOVEMBER 19, 2007)	
Session 5A: Embedded & Real-Time	Systems
Live Range Splitting at Recursive Function Calls	Stefan Schaeckeler, Santa Clara University, USA Weijia Shang, Santa Clara University, USA
Evaluation of I-Cache Locking Technique for Real-Time Embedded Systems	Abu Asaduzzaman, Florida Atlantic University, USA Niranjan Limbachiya, Florida Atlantic University, USA Imad Mahgoub, Florida Atlantic University, USA Fadi Sibai, UAE University, UAE
Minimizing Response Time Implication in DVS Scheduling for Low Power Real-Time Embedded Systems	Nasaro Min-Allah, Chinese Academy of Sciences, China Asad-Raza Kazmi, Chinese Academy of Sciences, China Ishtiaq Ali, COMSATS University, Pakistan Xing Jian-Sheng, Graduate School, CAS, China Wang Yong-Ji, Chinese Academy of Sciences, China
EVO-EXPLORER: A Tool for Designing High- Performance Digital Systems	Azeddien Sllame, Al Fateh University, Libya
Online Feasibility Analysis with Composite- Deadline	Nasaro Min-Allah, Chinese Academy of Sciences, China Imran Ali, Chinese Academy of Sciences, China Xing Jian-Sheng, Chinese Academy of Sciences, China Wang Yong-Ji, Chinese Academy of Sciences, China

Session 5B: Ad Hoc and Sensor Networks II	
Admission Control Scheme and Bandwidth Management Protocol for 802.11 Ad hoc Networks	Abdelouahid Derhab, CERIST Research Center, Algeria Abdelmadjid Bouabdallah, Heudiasyc-UMR CNRS, France
Supporting Data-Intensive Wireless Sensor Applications using Smart Data Fragmentation and Buffer Management	Mbonisi Masilela, Virginia Commonwealth University, USA Ju Wang, Virginia Commonwealth University, USA Ramana Pidaparti, Virginia Commonwealth University, USA
A Functional Component Based Framework for Cross-Layer Design	Mike Slavik, Florida Atlantic University, USA Imad Mahgoub, Florida Atlantic University, USA Ahmed Badi, Florida Atlantic University, USA Fadi Sibai, UAE University, UAE
An Adaptive Clustering Algorithm with Power Control in Wireless Sensor Networks	Hye-Sun Hur, Chungnam National University, Korea Kyungsup Kim, Chungnam National University, Korea

Session 5C: Algorithms & Heuristics	
Wave-Fronts Parallelization and Scheduling	Saeed Parsa, Iran University of Science and Technology, Iran Shahriar Lotfi, Iran University of Science and Technology, Iran
Finding Feasible Timetables with Particle Swarm Optimization	Danial Qarouni-Fard, University of Ferdowsi, Iran Amir Najafi-Ardabili, University of Ferdowsi, Iran M- hossein Moeinzadeh, University of Tehran, Iran Sarah Sharifian Razavi, Ferdowsi University of Mashhad, Iran Ehsan Asgarian, Sharif University of Technology, Iran Javad Mohammadzadeh, University of Tehran, Iran

4th International Conference on Innovations in Information Technology

Behavior of the Concept Lattice Reduction to visualizing data after Using Matrix Decompositions	Vaclav Snasel, VSB-Technical University of Ostrava, Czech Republic Hussam M. Dahwa Abdulla, VSB Technical University Ostrava, Czech Republic Martin Polovincak, VSB Technical University Ostrava, Czech Republic
Solving MEC and MEC/GI Problem Models Using Information Fusion and Multiple Classifier Systems	Ehsan Asgarian, Sharif University of Technology, Iran M- hossein Moeinzadeh, University of Tehran, Iran Javad Mohammadzadeh, University of Tehran, Iran Ali Ghazinezhad, Ferdowsi University of Mashhad, Iran Jafar Habibi, Sharif University of Technology, Iran Amir Najafi- Ardabili, University of Ferdowsi, Iran
Three Heuristic Clustering Methods for Haplotype Reconstruction Problem with Genotype Information	M- hossein Moeinzadeh, University of Tehran, Iran Ehsan Asgarian, Sharif University of Technology, Iran Amir Najafi- Ardabili, University of Ferdowsi, Iran Sarah Sharifian Razavi, Ferdowsi University of Mashhad, Iran Javad Mohammadzadeh, University of Tehran, Iran Mohammad-Sadegh Shaikhaei, Amirkabir University of Technology, Iran

Session 5D: Special Session: IT Appli	cations in Electric Power Systems II
System of Support of Decision-Making for Electrical Power System Staff.	Diaeldin Ali Ibrahim, University of Donetsk, Ukraine I. P. Zabolotny, Donetsk State Technical University, Ukraine
Substation Automation Techniques and Future Trends	A B S Mohamed Rayees, Al Ain Distribution Company, UAE
Autonomic Computing Application in Power System Distributions.	M AL Zawi, Liverpool John Moores University, UK D. Al-Jumeily, Liverpool John Moores University, UK Abir Jaafar Hussain, Liverpool John Moores University, UK T. F. Abdelsalam, University of Bath, UK
An Efficient Tri-loop Controller for Photovoltaic Powered Four-wheel Electric Vehicle.	Emhemed Elbakush, University of New Brunswick, Canada A.M. Sharaf, University of New Brunswick, Canada I. H. Altas, Karadeniz Technical University, Trabzon, Turkey
A New Digital Signal Processing Based Approach for Evaluation of Reactive Power and Energy in Power Distribution Systems.	Adalet Abiyev, Girne American University, Turkey

Morjaan I:	Mobility Management	
IEEE 802.21 MIH	based Handover for Next	Jae-Han Seol, Yonsei University, Korea
Generation Mobi	le Communication Systems	Jong-Moon Chung, Yonsei University, Korea
		Rami Tawil, Pierre et Marie Curie University, France
A Decision Scher	ne for Vertical Handoff in	Guy Pujolle, Pierre et Marie Curie University, France
Overlay Wireless	Networks	Oscar Salazar, Telecom Paris (ENST), France
		Jacques Demerjian, PhdGroup.org Association, France

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

	Syed Zubair Ahmad, Mohammad Ali Jinnah University,
	Pakistan
A Cross-Layer Vertical Handover Decision	Mohammad Saeed Akbar, Mohammad Ali Jinnah
Model for Heterogeneous Wireless Networ	ks University, Pakistan
	Mohammad Abdul Kadir, Mohammad Ali Jinnah
	University, Pakistan

Morjaan 2: Tutorial 3.a	
Basics of Portal Technologies Using Open source and Commercial Products.	Dr. Khalid Khawaja, American University in Dubai, UAE

15:40 - 16:00 Coffee Break

16:00 - 17:40 (MONDAY, NOVEMBER 19, 2007) Session 6A: Natural Language Proce	
Stemming Versus Light Stemming as Feature Selection Techniques for Arabic Text Categorization	Rehab Duwairi, Jordan University of Science and Technology, Jordan Mohammad Al-Refai, Jordan University of Science and Technology, Jordan Natheer Khasawneh, Jordan University of Science and Technology, Jordan
Investigating Automatic Recognition of Non- Native Arabic Speech	Sid-Ahmed Selouani, University of Moncton, Canada Yousef Alotaibi, King Saud University, Saudi Arabia
Stemmer Algorithm for Arabic Words based on excessive letter locations	Riyad Al Shalabi, Arab Academy for Banking and Financial Sciences, Jordan Ghassan Kanaan, Arab Academy for Banking and Financial Sciences, Jordan Sameh Ghawanmeh, Yarmouk University, Jordan
Enhanced Arabic Information Retrieval System based on Arabic Text Classification	Sameh Ghawanmeh, Yarmouk University, Jordan Ghassan Kanaan, Arab Academy for Banking and Financial Sciences, Jordan Riyad Al Shalabi, Arab Academy for Banking and Financial Sciences, Jordan Ahmad Ababneh, Yarmouk University, Jordan
A Comparison between Interactive and Automatic Query Expansion Applied on Arabic Language	Ghassan Kanaan, Arab Academy for Banking and Financial Sciences, Jordan Riyad Al Shalabi, Arab Academy for Banking and Financial Sciences, Jordan Sameh Ghawanmeh, Yarmouk University, Jordan Basel bani-Ismail, Yarmouk University, Jordan

Session 6B: Pattern Matching and Ro	ecognition
	Siamak Kolahi, Concordia University, Canada
Tool Support for Composition and Verification	Aziz Salah, University of Quebec at Montreal, Canada
of Formal Behaviors	Rabeb Mizouni, Concordia University, Canada
	Rachida Dssouli, Concordia University, Canada
Face Recognition Using State Space Parameters	Kabeer V, Kannur University, India
and K-NN Classifier	T M Thasleema, Kannur University, India

4th International Conference on Innovations in Information Technology

	N K Narayanan, Kannur University, India
Identification of lung cancer based on shape and	Fatma Taher, University of Sharjah, UAE
color	Rachid Sammouda, University of Sharjah, UAE
	Hasan R. Obeid, Hariri Canadian University, Lebanon
License Plate Localization in ALPR Systems	Rached N. Zantout, Hariri Canadian University, Lebanon
	Fadi Sibai, UAE University, UAE
A Prerequisite Concepts for Temporal-Side	Ahmed Aburodes Assaid, Sebha University, Libya
Sequential Patterns Discovery	7 tillied 7 total odes 7 tisalid, Sebila Offiver Sity, Libya

Session 6C: Agent-Based Systems	
	T. Abdelaziz, University of Duisburg-Essen, Essen,
A Framework for the Evaluation of Agent-	Germany
Oriented Methodologies	Mohamed Elammari, University of Garyounis, Libya
	R. Unland, University of Duisburg-Essen, Essen, Germany
	Djamila Mechta, University Ferhat Abbes of Setif Algeria
Agent-Based Approach for Designing and	Saad Harous, University of Sharjah, UAE
Implementing a Virtual Laboratory	Mahieddine Djoudi, University of Poitiers, France
,	Amel Douar, University Ferhat Abbes of Setif, Algeria
Pattern Pased Design for Intelligent Mobile	Ananta Charan Ojha, ICFAI University, India
Pattern-Based Design for Intelligent Mobile Agents	Sateesh Kumar Pradhan, Utkal University, India
	Manas Ranjan Patra, Berhampur University, India
Complexity Results for Argumentation-based	Jamal Bentahar, Concordia University, Canada
Agent Communication	Zakaria Maamar, Zayed University, UAE
	Abu Zafar Abbasi, National University of Computer and
An Approach Towards Emotion Estimation	Emerging Sciences, Karachi, Pakistan
During Chat Sessions Using Software Agents	Dr. Zubair A. Shaikh, National University of Computer
	and Emerging Sciences, Karachi, Pakistan

Session 6D: Special Session: Innovat	ions in Simulation Techniques
A Financial Literacy Simulation Model using	Rentian Huang, Liverpool Hope University, UK
	H. Tawfik, Liverpool Hope University, UK
Neural Networks	M. Samy, Liverpool Hope University, UK
	A. K. Nagar, Liverpool Hope University, UK
	Abdesslam Jakimi, ENSIAS, Morocco
	Ayoub Sabraoui, ENSIAS, Morocco
Lles Cases and Seananies Engineering	Elarbi Badidi, UAE University, UAE
Use Cases and Scenarios Engineering	Ali Idri, ENSIAS, Morocco
	Mohamed Elkoutbi, ENSIAS, University MohammedV,
	Morocco
	Ciprian M. Dobre, Politechnica University of Bucharest,
A Simulation Model for Large Scale Distributed	Romania
Systems	Valentin Cristea, Politehnica University of Bucharest,
	Romania
Novel Approach in Modeling the Extents of Moving Objects	Haoran Chen, University of Science and Technology of
	China
	Jin Peiquan, University of Science and Technology of
	China
	Yue Lihua, University of Science and Technology of China

4th International Conference on Innovations in Information Technology

Dubai, November 18-20, 2007

Development of a Virtual Memory Simulator to	Fadi Sibai, UAE University, UAE
Analyze the Goodness of Page Replacement	Maria Ma, Fidelity Investments, USA
Algorithms	David A. Lill, Motorola, Inc., USA
Active Tokens for Modelling Mental Health Care	Kristina Dammasch, University of Magdeburg, Germany
with Coloured Stochastic Petri Nets	Graham Horton, University of Magdeburg, Germany
	George Rigopoulos, National Technical University of
An Interactive Web Based Decision Support	Athens, Greece
System for Financial Decisions within a Team	Alessandra Orsoni, Kingston University, UK
	Javier Otamendi, Universidad Rey Juan Carlos, Spain

Morjaan 2: Tutorial 3.b	
Basics of Portal Technologies Using Open source	Dr. Khalid Khawaja, American University in Dubai, UAE
and Commercial Products.	Dr. Klialid Kliawaja, American Oniversity in Dubai, OAL

TUESDAY, NOVEMBER 20, 2007

09:00-10:40	
Session 7A: Web Services	
Alert Notification and Resource Allocation against Disease Outbreak using Web services	Drake T. T. Lin, Hong Kong University of Science and Technology Dickson K.W. Chiu, Dickson Computer Systems
RBSLA based Implementation for Architectural Management Laws	Ahmed Alghamdi, University of Leicester, UK José Luiz Fiadeiro, University of Leicester, UK Adrian Paschke, RuleML Inc., Canada
Implementing a Facial Recognition System with Alerts and Web Services	K.W. Yu, Hong Kong University of Science and Technology Dickson K.W. Chiu, Dickson Computer Systems Patrick C. K. Hung, University of Ontario, Canada
Applying Vector Space Models to Ontology Link Type Suggestion	Albert Weichselbraun, Vienna University of Economics and Business Administration, Austria Gerhard Wohlgenannt, Vienna University of Economics and Business Administration, Austria Arno Scharl, MODUL University Vienna, Austria
Towards Peer-to-Peer Long-Lived Mobile Web Services	Fahad Aijaz, RWTH Aachen University, Germany Bilal Hameed, Aachen University of Technology, Germany Bernhard Walke, RWTH Aachen University, Germany

Session 7B: Web Applications II	
Fuzzy Radial Basis Function Neural Networks for	Ali Idri, ENSIAS, Morocco
Web Applications Cost Estimation	Abdelali Zakrani, ENSIAS, Morocco
	Mohamed Elkoutbi, ENSIAS, Université MohammedV,
	Morocco,
	Alain ABRAN, ETS - University of Quebec, Montreal,
	Canada
Multidimensional Sessions Comparison Method	Natheer Khasawneh, Jordan University of Science and
Using Dynamic Programming	Technology, Jordan
	Chien-Chung Chan, University of Akron, USA

4th International Conference on Innovations in Information Technology

Content Classification for Caching under CDNs	George Pallis, Aristotle University of Thessaloniki, Greece Charilaos Thomos, Aristotle University of Thessaloniki, Greece Konstantinos Stamos, Aristotle University of Thessaloniki, Greece Athena Vakali, Aristotle University of Thessaloniki, Greece George Andreadis, Aristotle University of Thessaloniki, Greece
Web2.0 for Machines and Services: Human Oriented Service Identity Management	David J. Lutz, Universitaet Stuttgart, Germany
Cluster Processing of Containment Queries in XML Databases	Ghassan Qadah, American University of Sharjah, UAE

Session 7C: Pervasive Computing II	
P2P File-Sharing Application on Mobile Phones Based on SIP	Liang Li, Institute of Computing Technology, Chinese Academy of Sciences, China Xinshe Wang, Hopen Software Engineering Co., Ltd
Virtual Human Interaction based on Emotional Cognition	Hamido Fujita, Iwate Prefectural University, Japan Jun Hakura, Iwate Prefectural University, Japan Masaki Kurematsu, Iwate Prefectural University, Japan
Integration of Telemedicine Activities in the Czech Republic	Otto Dostal, Masaryk University in Brno, Czech Republic Michal Javornik, Masaryk University in Brno, Czech Republic Karel Slavicek, Masaryk University in Brno, Czech Republic Pavel Ventruba, Masaryk University in Brno, Czech Republic
Document Adaptation and Efficient Exploring of Adapted Document on Mobile Devices	Hassan NADERI, University of INSA of Lyon, France Béatrice Rumpler, University of INSA of Lyon, France Jean-Marie Pinon, University of INSA of Lyon, France
Noise Field Measurements for Safety use of Environmel Electronic and Electrical Equipment	Iman Gamal Eldin Morsi, Arab Academy for Science and Technology, Egypt Hassan Elkamchouchi, University of Alexandria, Egypt

Session 7D: Advanced Issues in Communication Networks		
	Omar F Hamad, Chonnam National University, Korea	
Induced Packet Loss Reduction by Max-Heap	Mi-Young Kang, Chonnam National University, Korea	
Overlay Construction Based on the Bandwidth-	Jin-Han Jeon, Chonnam National University, Korea	
Latency Product Measures	Kyung-Hoon Kim, Chonnam National University, Korea	
	Ji-Seung Nam, Chonnam National University, Korea	
Ontology Based Personalized Service in E-		
marketplaces: A Case Study in a Used Car	C. K. Lee, Dickson K.W. Chiu	
Matching System		
A New Approach in Grouping and Furthest	Amir M. Rahmani, Islamic Azad University, Iran	
Away Recently for Optimizing Management	Feridon Shams, University of Beheshti, Iran	
Cache in Mobile Environment	Majid Momenizadeh, Islamic Azad University, Iran	

4th International Conference on Innovations in Information Technology

Morjaan I: Tutorial 4.a	
Software Engineering of video games.	Prof. Boumediene Belkhouche, UAE University, UAE

10:40 - 11:00	Break		

11:00 - 12:40	
Session 8A: MIMO & Coding Techniques	
Iterative Semi-blind Beamforming Algorithm in MIMO-OFDM Systems	Simin Bokharaiee Najafee, Ferdowsi University of
	Mashhad, Iran
	Hossein Zamiri-Jafarian, University of Toronto, Canada
Optimization of DCF Location for WDM	Taha Landolsi, American University of Sharjah, UAE
Systems using RZ, Chirped RZ and Carrier-	Mohamed El-Tarhuni, American University of Sharjah,
Suppressed RZ Modulations	UAE
Two-Stage Hybrid Decoding for Low-Density	Hany Zeidan, German University in Cairo, Egypt
Parity Check codes	Maha M. Elsabrouty, German University in Cairo, Egypt

Session 8B: Computer & Network Security III		
Simulation Based Study of Communication	Zohra Abdelhafidi, University Amar Telidji, Algeria	
Induced Checkpointing Protocols Ensuring the	Mohamed Djoudi, University Amar Telidji, Algeria	
RDT Property	Mohamed Yagoubi, University Amar Telidji, Algeria	
	Yuan Hong, Concordia University, Canada	
A Hierarchical Approach to the Specification of	Shuo Lu, Concordia University, Canada	
A Hierarchical Approach to the Specification of Privacy Preferences	Qian Liu, Concordia University, Canada	
rrivacy rreferences	Lingyu Wang, Concordia University, Canada	
	Rachida Dssouli, Concordia University, Canada	
An Image Watermarking Scheme based on Image	Farhad Keissarian, University of Wollongong in Dubai,	
Visual Activity for Copyright Protection	UAE	
	Madihah Mohd Saudi, Islamic Science University of	
Reverse Engineering: Malware Analysis	Malaysia	
	Emran Mohd Tamil, University of Malaya (UM)	
	Siti Aishah Md Nor, Islamic Science University of Malaysia	
	Mohd Yamani Idna Idris, Univeristy of Malaya (UM)	
	Dongho Song, Korea University, Korea	
A Digital ID Purse Mechanism using USIM in a Mobile Environment	Sun Hee Lim, Korea University, Korea	
	Okyeon Yi, Kookmin University, Korea	
	Jongin Lim, Korea University, Korea	

Session 8C: Image Computing	
New image matching method based on spatial	Ines Karouia, ISI, Tunisia
inter-region relationships	Ezzeddine Zagrouba, ISI, Tunisia
Decomposition of an alignment problem of two 3D images by a multi-agent approach	Mohamed A. Jallouli, Institut Supérieur d'Informatique, Tunisia Ezzeddine Zagrouba, ISI, Tunis, Tunisia Narjes Doggaz, Faculté des Sciences de Tunis, Tunisia Mongi Abidi, IRIS, Tunisia
Interactive Object and Collision Detection	Riri Fitri Sari, University of Indonesia, Indonesia
Algorithm Implementation on a Virtual Museum	Muliawan, University of Indonesia, Indonesia

4th International Conference on Innovations in Information Technology

based on Croquet	
A Hybrid Digital Image Watermarking Algorithm	Ali Al-Haj, University of Jordan, Jordan

Session 8D: QoS & Resource Allocation		
Quality of Service Support and Local Recovery Approach for ODMRP Multicast Routing in Ad hoc Networks	Mehdi Effatparvar, Islamic Azad University, Iran Amir Dareshorzadeh, Iran University of Science and Technology, Iran Mehdi Dehghan, AmirKabir University of Technology, Iran Ali Movaghar, Sharif University of Technology, Iran Mohammad Reza Effatparvar, Islamic Azad University, Iran	
Fair-Sharing Resource Management Schema for Multi-service Wireless and Mobile Networks	Hang Chen, Johnson C. Smith University, USA Magdy Attia, Johnson C. Smith University, USA	
Opportunistic Uplink Scheduling for 3G LTE Systems	Mohammed Al Rawi, Helsinki University of Technology, Finland Riku Jäntti, Helsinki University of Technology, Finland Johan Torsner, Ericsson Research, Finland Mats Sågfors, Ericsson Research, Finland	
Preemption Scheme for Improving Source Level Fairness in Optical Burst Switching Networks Tananun Orawiwattanakul, The Graduate Advanced Studies Japan Yusheng Ji, National Institute of Informati		
Optimal Frame Length for Keeping Normalized Goodput with Lowest Requirement on BER	Jian Qi, University of Quebec, INRS-EMT, Canada Sonia Aissa, University of Quebec, INRS-EMT, Canada Xinsheng Zhao, Southeast University Nanjing, China	

Morjaan I: Tutorial 4.b	
Software Engineering of video games.	Prof. Boumediene Belkhouche, UAE University, UAE

12:40 - 13:30
Closing ceremony
Best paper award announcement