

Summary Program

Day 1: Tuesday, December 15, 2009

07:30 - 09:00	Registration/Light Breakfast
09:00 - 09:30	Opening Ceremony (<i>Auditorium</i>) Opening Address - H.E. Dr. Abdullah Al-Khanbashi, Vice Chancellor, United Arab Emirates University.
09:30 - 10:30	Keynote Address by Dr. Liang-Jie Zhang (<i>Auditorium</i>) Services Computing: Disciplined Innovation Approach for Modernizing IT Industry
10:30 - 11:00	Coffee Break

	Room 1	Room 2	Exhibition Hall
11:00 - 13:00	D1-S1 (SEC)	D1-S2 (EMB)	Student Poster Session
13:00 - 14:00	Keynote Address by Prof. Costas Courcoubetis (<i>Auditorium</i>) Socio-Economic Challenges for the Internet of the Future		
14:00 - 15:30	Lunch		
15:30 - 17:30	D1-S3 (NET)	D1-S4 (WEB)	Student Poster Session

Day 2: Wednesday, December 16, 2009

08:00 - 09:00	Registration/Light Breakfast
09:00 - 10:00	Keynote Address by Prof. Pravin Varaiya (<i>Auditorium</i>) Measurement, Monitoring, and Management of Urban Traffic

	Room 1	Room 2	Room 3
10:00 - 12:00	D2-S1 (WEB)	D2-S2 (EMB)	Tutorial I
12:00 - 12:15	Coffee Break		
12:15 - 13:15	Keynote Address by Dr. Marvin Sambur (<i>Auditorium</i>) Highly Automated, Simple-to-Use Toolset for Evaluating and Optimizing System Test Plans		
13:15 - 14:30	Lunch		
14:30 - 16:30	D2-S3 (BIO)	D2-S4 (SOF)	Tutorial II
18:30	Gala Dinner		

Day 3: Thursday, December 17, 2009

07:30 - 08:30	Registration/Light Breakfast
08:30 - 09:30	Keynote Address by Dr. Jan Bosch (<i>Auditorium</i>) Innovation in Software-Intensive Industries: What if Everything you thought you Knew about Software Engineering is Wrong

	Room 1	Room 2	Room 3
09:30 - 11:30	D3-S1 (NET)	D3-S2 (EMB)	Tutorial III
11:30 - 12:00	Coffee Break		
12:00 - 14:00	D3-S3 (SEC)	D3-S4 (WEB)	
14:00	Closing followed by Social Program		

Detailed Program

(Technical Sessions)

DAY 1: TUESDAY, DECEMBER 15, 2009 (MORNING)

Session D1-S1 (SEC: Computer and Information Security)

Location: Room 1

Time: 11:00 – 13:00

Chairs: Dr. A. Benslimane, Univ. of Avignon, France and Dr. Z. Trabelsi, UAE Univ., UAE

TIME	TITLE AND AUTHORS
11:00 - 11:20	Using RFID Tags to Improve Pilgrimage Management Hamad Binsalleeh, Noman Mohammed, Parminder Sandhu, Feras Aljumah, Benjamin C. M. Fung (Concordia University, CA)
11:20 - 11:40	A New Adjustable Blind Watermarking Method Based on GA and SVD Hamed Modagheh, Hossein Khosravi R., Mohammad-R. Akbarzadeh-T (Ferdowsi University of Mashhad, IR)
11:40 - 12:00	Modeling and Analysis of Agent-Based Specifications of Security Protocols Using CSANs and PDETool Mojtaba Akbarzadeh, Mohammad Abdollahi Azgomi (Iran Univ. of Science and Tech., IR)
12:00 - 12:20	Multiple Preauthentication Schemes Based on Fast Channel Switching in Public Wireless LANs JaeJong Baek (Yonsei University, KR); SungHoon Seo (Columbia University, US); JooSeok Song (University of Yonsei, KR)
12:20 - 12:40	Securing Bluetooth-Based Payment System Using HoneyPot Kiyana Zolfaghar, Shahriar Mohammadi (K.N.Toosi University of Technology, IR)
12:40 - 13:00	Application of Distributed Safe Log Management in Small-Scale, High-Risk System Yuchao Chen (College of Information & Electronic Eng., Zhejiang Gongshang Univ., CN)

Session D1-S2 (EMB: Computing and Embedded Systems)

Location: Room 2

Time: 11:00 – 13:00

Chairs: Dr. Ismail Hababeh and Dr. Shayma Alkobaisi, UAE University, UAE

TIME	TITLE AND AUTHORS
11:00 - 11:20	Fleet Management Automation Using the Global Positioning System Rached N Zantout (Hariri Canadian University, LB); Mazen Jrab (ARAM Locator, LB); Lama Hamandi (American University of Beirut, LB); Fadi Sibai (UAE University, AE)
11:20 - 11:40	Stochastic Approximation Driven Particle Swarm Optimization Serkan Kiranyaz (Tampere University of Technology, FI); Turker Ince (Izmir University of Economics, TR); Moncef Gabbouj (Tampere University of Technology, FI)
11:40 - 12:00	Using the Generalized HSS Method to Solve Linear Systems Arising from a Fourth-Order Discretisation of a Model Convection-Diffusion Equation Ashvin Gopaul, Manisha Ramsarrun, Jayrani Cheeneebash, Sameer Mohammad Sunhaloo, Muddun Bhuruth (University of Mauritius, MU)
12:00 - 12:20	Improvement of Hessian Based Vessel Segmentation Using Two Stage Threshold and Morphological Image Recovering Seyed Mostafa Mirhassani (IAU Science and Research Branch, IR); M.M.hosseini (Islamic Azad University Shahrood Branch, IR); Alireza Behrad (Shahed Univ., IR)
12:20 - 12:40	Towards Design of a Smart Prepaid Gas Metering System Tareq Khan (University of Saskatchewan, CA)
12:40 - 13:00	Cooperative Fuzzy Rulebase Construction Based on a Novel Fuzzy Decision Tree Ehsan Ahmadi, Mohammad Taheri, Narjes Mirshekari, Sattar Hashemi, Ali Hamzeh (Shiraz University, IR); Ashkan Sami (Tohoku University, Japan)

DAY 1: TUESDAY, DECEMBER 15, 2009 (AFTERNOON)

Session D1-S3 (NET: Communication Networks)

Location: Room 1

Time: 15:30 – 17:30

Chairs: Dr. Fathi Allan and Dr. Farag Sallabi, UAE University, UAE

TIME	TITLE AND AUTHORS
15:30 - 15:50	LEGATE: Location management system for logical Group-based Tracking of mobile nodes in Retailing Malls Hina Khalid (Dept. of Comp. Sc. and Eng., UET, Lahore PK); Maria Chaudhary (KICS, UET, PK); Chae S. Lim (Ajou Univ. Suwon, KR); Jun S. Park, Hyun J. Choi (KAIST Daejeon, KR); W. Mansoor (Ajou Univ. Suwon, KR); Kyu Ho Park (KAIST Daejeon, KR); M. Javed, Ali H. Akbar (KICS, UET, PK); Ki-Hyung Kim, Seung-wha Yoo (Ajou Univ. Suwon, KR)
15:50 - 16:10	Network Effects on the Functionality of Voice-Controlled Systems and Applications Yasser Gadallah, Iqbal Taleb (UAE University, AE)
16:10 - 16:30	A WLAN Handoff Scheme Based on Selective Channel Scan Using Pre-collected AP Information for VoIP Application SungRae Kim, KyungJoon Kim, JaeJong Baek, JooSeok Song (University of Yonsei, KR)
16:30 - 16:50	Localized QoS Routing and Admission Control: Performance Evaluation Abdulbaset Mohammad, Mike Woodward (University of Bradford, UK)
16:50 - 17:10	A New FFT Architecture for 4x4 MIMO-OFDMA Systems with Variable Symbol Lengths Dionysios I. Reisis (National and Kapodistrian Univ. of Athens, GR); Hussein Alnuweiri (Texas A&M Univ., Qatar, QA); Konstantinos G. Nakos, Athanasios Karachalios (National and Kapodistrian Univ. of Athens, GR)
17:10 - 17:30	Performance Evaluation of Mobile IPv6 Fast Handover Mohamed Alnas (University of Bradford, UK)

Session D1-S4 (WEB: Information Systems & Web Services)

Location: Room 2

Time: 15:30 – 17:30

Chairs: Dr. Salah Aziz, UQAM, Canada and Dr. Said Elnaffar, UAE University, UAE

TIME	TITLE AND AUTHORS
15:30 - 15:50	Assisting the Autistic with Real-time Facial Expression Recognition Abdolhossein Sarrafzadeh (Unitec, NZ); Jamshid Shanbehzadeh (Tarbiat Moalem University, IR); Farhad Dadgostar (National ICT Australia, AU)
15:50 - 16:10	XQPoint: A Queriable Homomorphic XML Compressor Baydaa Al-Hamadani (Univ. of Huddersfield, UK); Raad Alwan (Assoc. Prof.)
16:10 - 16:30	Effective Ways of Encouraging Teachers to Design and Use ITS: Feature Analysis of Intelligent Tutoring Systems Authoring Tools Norliza Katuk (Massey University, NZ); Abdolhossein Sarrafzadeh (Unitec, NZ); Farhad Dadgostar (National ICT Australia, AU)
16:30 - 16:50	An Analysis of the Effect of Training Data Variation in English-Persian Statistical Machine Translation Mahsa Mohaghegh (Massey University, NZ); Abdolhossein Sarrafzadeh (Unitec, NZ)
16:50 - 17:10	Designing Fuzzy Utility-Based Double Auctions Using Particle Swarm Optimization Algorithm Mohammad Amin Rigi, Shahriar Mohammadi (K.N.Toosi University of Technology, IR); Morteza Delgir (Ferdowsi Univ. of Mashad, Engineering Faculty, Computer Department, IR)
17:10 - 17:30	Using Common Devices as Collaborative Tools for Collecting and Connecting People's Stories Kosuke Numa, Tatsuo Sugimoto (Univ. of Tokyo, JP); Masako Miyata (Sapporo Otani Univ.,

JP); Kiyoko Toriumi; Jun Abe; Yuri Tanaka (Univ. of Tokyo, JP); Sumaru Niida (KDDI R&D Lab. Inc., JP); Koichi Hori (Univ. of Tokyo, JP)

DAY 2: WEDNESDAY, DECEMBER 16, 2009 (MORNING)

Session D2-S1 (WEB: Information Systems & Web Services)

Location: Room 1

Time: 10:00 – 12:00

Chairs: Dr. Abdelghani Benharref, Abu Dhabi Univ., UAE and Dr. Elarbi Badidi, UAE Univ., UAE

TIME	TITLE AND AUTHORS
10:00 - 10:20	Weighted Shingling: An Adaptation of Shingling for Weighted Shingles Zahra Eskandari Gharghe, Behrouz Minaei (Iran University of Science and Technology, IR)
10:20 - 10:40	A Framework for Technology Forecasting and Visualization Wei Lee Woon, Andreas Henschel (Masdar Institute of Science and Technology, AE); Stuart Madnick (Massachusetts Institute of Technology, US)
10:40 - 11:00	Comparison of Generality Based Algorithm Variants for Automatic Taxonomy Generation Andreas Henschel, Wei Lee Woon (Masdar Institute of Science and Technology, AE); Stuart Madnick (Massachusetts Institute of Technology, US); Thomas Waechter (Technische Universitaet Dresden, DE)
11:00 - 11:20	On Popularity Quality: Growth and Decay Phases of Publication Popularities Suliman Bani-Ahmad (AlBalqa Applied University, JO); Gultekin Ozsoyoglu (CWRU, US)
11:20 - 11:40	Database Virtualization Technology in Ubiquitous Computing Yuji Wada (Tokyo Denki University, JP)
11:40 - 12:00	FuzzyCART: A Novel Fuzzy Logic Based Classification & Regression Trees Algorithm Piers Campbell, Haydar Fathulla, Faheem Ahmed (UAE University, AE)

Session D2-S2 (EMB: Computing and Embedded Systems)

Location: Room 2

Time: 10:00 – 12:00

Chairs: Dr. Naser Qamhieh and Dr. Nabeel Al-Qirim, UAE University, UAE

TIME	TITLE AND AUTHORS
10:00 - 10:20	Automatic Processing of Arabic Text Ziad Osman (Beirut Arab University, LB); Lama Hamandi (American University of Beirut, LB); Rached N Zantout (Hariri Canadian University, LB); Fadi Sibai (UAE University, AE)
10:20 - 10:40	A New Modeling Algorithm - Normalized Kernel Least Mean Square Hamed Modagheh (Ferdowsi University Of Mashhad, IR); Hadi Sadoghi Yazdi (Faculty of Engineering, Tarbiat Moallem University of Sabzevar, Iran, IR); Hossein Khosravi R., Saied Ahoun manesh (Ferdowsi University Of Mashhad, IR)
10:40 - 11:00	Analysis of Single-Event Effects in Embedded Processors for Non-uniform Fault Tolerant Design Farshad Firoozi, Mostafa Salehi, Ali Azarpeyvand, Mehdi Fakhraie, Saeed Safari (University of Tehran, IR)
11:00 - 11:20	True State-Space Complexity Prediction: By the Proxel-Based Simulation Method Sanja Lazarova-Molnar (UAE University, AE)
11:20 - 11:40	Reliability of NAND-2 CMOS Gates from Threshold Voltage Variations Walid Ibrahim, Valeriu C. Beiu (UAE University, AE)
11:40 - 12:00	Data Path Refinement Algorithm in High-Level Synthesis Based on Dynamic Programming Abbas Rahimi, Siamak Mohammadi, Aidin Foroughi (University of Tehran, IR)

DAY 2: WEDNESDAY, DECEMBER 16, 2009 (AFTERNOON)

Session D2-S3 (BIO: Bioinformatics and Healthcare Informatics)

Location: Room 1

Time: 14:30 – 15:50

Chairs: Dr. Sami Shaban and Dr. Nazar Zaki, UAE University, UAE

TIME	TITLE AND AUTHORS
14:30 - 14:50	A Combination of PSO and k-Means Methods to Solve Haplotype Reconstruction Problem Sarah Sharifian, Ardeshir Baharian (Ferdowsi University of Mashad, IR); Ehsan Asgarian (Sharif University of Technology, IR); Ammar Rasooli valaghozi (Elmozanat University, IR)
14:50 - 15:10	RSMA Matching Algorithm for Searching Biological Sequences Ahmad Klaib, Hugh Osborne (University of Huddersfield, UK)
15:10 - 15:30	A Cooperative and Conversational Virtual Agent for M-Commerce Applications Siwar Rekik (CUD, AE); Sid-Ahmed Selouani (Université de Moncton, Campus of Shippagan, CA); Habib Hamam (University of Moncton, CA)
15:30 - 15:50	Middleware for Remote Healthcare Monitoring Cicília R. Leite (State University of Rio Grande do Norte, BR); Bruno Araújo, Gláucio Brandão (Federal University of Rio Grande do Norte, BR); Ricardo A. Valentim (Federal Center of Technological Education of Rio Grande do Norte, BR); Ana M. Guerreiro (Federal University of Rio Grande do Norte, BR)

Session D2-S4 (SOF: Software Engineering)

Location: Room 2

Time: 14:30 – 16:30

Chairs: Dr. Adel Khelifi, Alhosn Univ., UAE and Dr. Naoufel Werghi, Khalifa Univ., UAE

TIME	TITLE AND AUTHORS
14:30 - 14:50	An Interactive 3D Distributed Environment for Distance Practical Works Amel Douar (Université Ferhat Abbas de Sétif, DZ); Saad Harous (UAE University, AE); Mahieddine Djoudi (Université de Poitiers, FR); Djamila Mechta (Université Ferhat Abbas de Sétif, DZ)
14:50 - 15:10	A Software Development Tool for Improving Quality of Service in Distributed Database Systems Ismail Hababeh (UAE University, AE)
15:10 - 15:30	Identification of Distinctive Features for Classification in Complex Systems Seyed Shahrestani (University of Western Sydney, AU)
15:30 - 15:50	Challenges in “Mobilizing” Desktop Applications: A New Methodology for Requirements Engineering Rabeb Mizouni, Mohamed Adel Serhani, Rachida Dssouli (UAE University, AE); Abdelghani Benharref (Abu Dhabi University, AE)
15:50 - 16:10	Using Model Checking Tool for Teaching Concurrent Programming Concepts Abdulrahman AAl Abdulsalam (College of Applied Science, OM)
16:10 - 16:30	An Architecture for E-Voting Systems Based on Dependable Web Services Amir Omidi (Makoo, IR); Mohammad Abdollahi Azgomi (Iran University of Science and Technology, IR)

DAY 3: THURSDAY, DECEMBER 17, 2009 (MORNING)

Session D3-S1 (NET: Communication Networks)

Location: Room 1

Time: 09:30 – 11:30

Chairs: Dr. Imad Mohammad Barhumi and Dr. Abderrahmane Lakas, UAE University, UAE

TIME	TITLE AND AUTHORS
09:30 - 09:50	Scalability and Fairness in the Combined Model for Congestion Control (CM4CC) in Large Networks Oliver Popov, Nguyen Hong Van, Iskra Popova (Stockholm University, SE)
09:50 - 10:10	Usability Constraints of Grid in Ad Hoc Networks Bekim Cilku, Aksenti Grnarov, Alajdin Abazi (South East European University, MK)
10:10 - 10:30	An Energy Efficient Data Dissemination Protocol for Wireless Multimedia Sensor Networks AmirHossien Mohajerzadeh, Mohammad Hossein Yaghmaee (Ferdowsi University of Mashad, IR); Abbas Ali Rezaee (Payam Noor University, IR)
10:30 - 10:50	A Steganographic Computational Paradigm for Wireless Sensor Networks Claude Turner (Bowie State University, US)
10:50 - 11:10	Power Management in Wireless LANs: The Case of IEEE 802.11 g Naouar Yaagoubi (Al Akhawayn University, MA); Mohammed A Boulmalf, Hamid Harroud (Al Akawayn University in Ifrane, MA); Tarik Ait-Idir (INPT, MA); Ahmed Karmouch (University of Ottawa, CA)
11:10 - 11:30	An Energy Efficient and QoS Aware Routing Protocol for Wireless Multimedia Sensor Networks Amir Hossien Mohajerzadeh, Mohammad Hossein Yaghmaee (Ferdowsi University of Mashhad, IR); Abbas Ali Rezaee (Payam Noor University, IR)

Session D3-S2 (EMB: Computing and Embedded Systems)

Location: Room 2

Time: 09:30 – 11:30

Chairs: Dr. Otmane Ait Mohamed, Concordia University, Canada and Dr. Khaled Shuaib, UAE University, UAE

TIME	TITLE AND AUTHORS
09:30 - 09:50	Conceptual Modeling of Petascale Computer Systems Abu S Asaduzzaman (Florida Atlantic University, US); Fadi Sibai (UAE University, AE)
09:50 - 10:10	Exploring Behaviors and Collaborative Mapping through Mindstorms Robots: A Case Study in Applied Social Constructionism at Senior-Project Level Nikolaos Mavridis (UAE University, AE)
10:10 - 10:30	Multi-Layer Parallel Shooting Method for Multi-Layer Boundary Value Problems Fathi Allan, Mohammed Ali Hajji (UAE University, AE)
10:30 - 10:50	Conventional Adders with Fine Grained Redundancy Injection Fekri Kharbash, Ghulam Chaudhry (University of Missouri-Kansas City, US)
10:50 - 11:10	LPP Mixture Model in Transform Domains for Robust Handwritten/Printed Character Recognition Noushath S (HP labs, IN); Ashok Rao (Mentor, Channabasaveshwara Institute of Technology, IN)
11:10 - 11:30	An Efficient Parallel Finite Difference Time Domain Algorithm for Modeling Open Region Electromagnetic Problems Omar Ramadan (Eastern Mediterranean University, TR)

Session D3-S3 (SEC: Computer and Information Security)

Location: Room 1

Time: 12:00 – 13:40

Chairs: Dr. Huwida E. Said, Zayed Univ., UAE and Dr. Ezedin Barka, UAE Univ., UAE

TIME	TITLE AND AUTHORS
12:00 - 12:20	A Majority Voter for Intrusion Tolerant Software Based on N-Version Programming Techniques Zahra Aghajani, Mohammad Abdollahi Azgomi (Iran University of Science and Technology, IR)
12:20 - 12:40	Struggling with Misbehaviours in Trust Systems Alessandro Longheu, Giuseppe Mangioni, Michele Malgeri, Vincenza Carchiolo (University of Catania, IT)
12:40 - 13:00	Combination of Duty and Historical Constraints in Role-Based Access Control Ali Hosseini, Mohammad Abdollahi Azgomi (Iran University of Science and Technology, IR)
13:00 - 13:20	Static Slicing-Based Pre-Reduction Technique for MDG Model-Checker Saad Elmansori, Otmame Ait Mohamed (Concordia University, CA); Falah Awwad (UAE University, AE)
13:20 - 13:40	Speech Prediction Using Higher Order Neural Networks Dhiya Al-Jumeily (Liverpool John Moores University, UK); Ahmed J. Jameel (Ahlia University, BH)

Session D3-S4 (WEB: Information Systems and Web Services)

Location: Room 2

Time: 12:00 – 14:00

Chairs: Dr. Mohammed Boulmalf, Akhawayn University, Morocco and Dr. Adel Serhani, UAE University, UAE

TIME	TITLE AND AUTHORS
12:00 - 12:20	Maximal Frequent Itemsets Mining: A Java Implementation of fpmax Algorithm Benameur Ziani, Youcef Ouinten (University of Laghouat, Algeria, DZ)
12:20 - 12:40	SWA-KMDLS: Enhanced E-Learning Management System Using Semantic Web and Knowledge Management Technology Ahmad Mukhlason (Institut Teknologi Sepuluh Nopember, ID)
12:40 - 13:00	An Approach for Web Services Composition Based on QoS and Gravitational Search Algorithm Bahareh Zibanezhad (Azad University, Najafabad Branch, IR); Kamran Zamanifar, Naser Nematbakhsh (University of Isfahan, IR); Farhad Mardukhi (IR)
13:00 - 13:20	Towards an Anomaly Detection Technique for Web Services Based on Kernel Methods Reyhaneh Ghasem Esfahani, Mohammad Abdollahi Azgomi (Iran University of Science and Technology, IR)
13:20 - 13:40	A Middleware for Improving Performance of Web Services Behrouz Minaei, Parinaz Saadat (Iran University of Science and Technology, IR); Pedram Zadno Azizi (IME, IR)
13:40 - 14:00	A Design Pattern for Dependable Web Services Using Design Diversity Techniques and WS-BPEL Esmaeil Nourani (Islamic Azad University - Kaleybar Branch, IR); Mohammad Abdollahi Azgomi (Iran University of Science and Technology, IR)

Student Poster Session

Day 1
Tuesday, December 15, 2009
Location: Exhibition Hall

TIME	SESSION
11:00 - 13:00	Student Poster Session (Morning) <hr/>
15:30 - 17:30	Student Poster Session (Afternoon) <hr/>

Tutorials

Day 2
Wednesday, December 16, 2009
Location: Room 3

TIME	TITLE AND PRESENTER
10:00 - 12:00	Tutorial I: Monitoring Urban Traffic: Design, Platforms and Applications Dr. Ram Rajagopal , University of California, Berkeley, California, USA <hr/>
14.30 - 16.30	Tutorial II: Developing Applications for Mobile Wireless Devices Dr. Nidal Nasser , University of Guelph, Guelph, Ontario, Canada <hr/>

Day 3
Thursday, December 17, 2009
Location: Room 3

TIME	TITLE AND PRESENTER
9:30 - 11:30	Tutorial III: Computer Forensics Dr. Dimitrios Frangiskatos , University of Greenwich, School of Computing and Mathematical Sciences, UK <hr/>