

# SUMMARY PROGRAM

Day 1: Sunday, November 1, 2015	
Time	Program
<b>Morning</b>	
08:00 – 10:00	Registration & Welcome Light Breakfast
10:00 – 10:30	(Chair: Leila Ismail & Achim P. Karduck) Opening Ceremony <b>Opening Address by Dr. Ali Rashid Al Noaimi, UAEU Vice Chancellor</b>
10:30 – 11:15	(Chair: Leila Ismail) <b>Keynote I</b> <b>Dr. Michael Perrone, IBM T. J. Watson Research Center, NY, USA</b>
11:15 – 11:30	Coffee Break
09:00 – 12:15 & 13:45 - 17:00	Students Poster Session
11:30 – 12:15	(Chair: Achim P. Karduck) <b>Keynote II</b> <b>Prof. Christian Wagner, City University Hong Kong, China</b>
12:15 – 13:45	Lunch
<b>Afternoon</b>	
13:45 – 15:45	Paper Sessions (D1S1, D1S2, D1S3), Tutorial I by <b>Prof. Sanjay Kumar Madria, Missouri University of Science and Technology, Rolla, USA</b>
15:45 – 16:00	Coffee Break
16:00 – 17:40	Paper Sessions (D1S4, D1S5), Smartness Innovation Adoption Session (D1S6), Tutorial II by <b>Dr. Fabrice Saffre, Etisalat BT Innovation Centre (EBTIC) in Abu Dhabi, UAE</b>
18:00	Departure for the Marina Cruise Social Event
18:30 – 20:30	<b>Marina Cruise Social Event</b>
Day 2: Monday, November 2, 2015	
<b>Morning</b>	
07:00 – 08:45	Light Breakfast
08:45 – 09:45	(Chair: Leila Ismail) <b>Keynote III</b> <b>CTO Gary Michael Schneider, Global Technical Leadership, IBM, USA</b>
09:45 – 11:45	Paper Sessions (D2S1, D2S2), Tutorial III by <b>Prof. El-Ghazali Talbi, Polytech'Lille - University of Lille 1, France</b>
11:45 – 12:00	Coffee Break
12:00 – 13:00	Paper Sessions (D2S3, D2S4)
13:00 – 14:30	Lunch
<b>Afternoon</b>	
14:30 – 15:30	(Chair: Achim P. Karduck) <b>Keynote IV</b> <b>Dr. Babu Narayanan, General Electric Global Research,</b>

Bangalore, India	
15:30 – 17:15	Paper Sessions (D2S5, D2S6), Tutorial IV by Dr. <b>Sherif Sakr, College of Public Health and Health Informatics at King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia</b>
17:15 – 17:30	Coffee Break
17:30 – 18:50	Paper Sessions (D2S7, D2S8)
19:20	Departure for Gala Dinner (Hilton Dubai Jumeirah Resort)
20:00 – 22:00	(Chair: Leila Ismail) <b><u>Gala Dinner Address about Smartness Innovation</u></b> <b>Prof. Christian Wagner, City University Hong Kong, China</b>

### Day 3: Tuesday, November 3, 2015

Time	Program
<b>Morning</b>	
08:00 – 09:00	Light Breakfast
09:00 – 10:00	(Chair: Leila Ismail) <b><u>Keynote V</u></b> <b>Prof. Elizabeth Chang, University of New South Wales and Australian Defence Force Academy, Australia</b>
10:00 – 11:00	(Chairs: Achim P. Karduck, Jie Liu) Smartness Innovation Adoption Forum
11:00 – 11:15	Coffee Break
11:15 – 13:00	Paper Sessions (D3S1, D3S2), Tutorial V by <b>Dr. Suleyman Uludag, University of Michigan – Flint, USA</b>
13:00 – 14:30	Lunch
<b>Afternoon</b>	
14:30 – 15:00	(Chair: Leila Ismail) Closing Ceremony and Group Photo
15:30	Pickup from Hotel Venue for Safari Social Event (Reservation in advance at the Reception Desk)

TECHNICAL SESSIONS	TUTORIALS
<ul style="list-style-type: none"> <li>• <b>D1-S1</b> Smart Cities and Advanced Network Technologies</li> <li>• <b>D1-S2</b> Smart Processing and Big Data</li> <li>• <b>D1-S3</b> IoT – Security, Privacy, Trust and Reliability</li> <li>• <b>D1-S4</b> Next Generation of Mobile Networks, Mobile Management and</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Tutorial I:</b> <i>Security and Privacy of Big Data in a Cloud Environment.</i> Prof. Sanjay Kumar Madria, Associate Chair for Research, Site Director, NSF I/UCRC Center on Net-Centric System and Software Director, Web and Wireless Computing Lab, Missouri University of</li> </ul>

<p>Mobile Computing</p> <ul style="list-style-type: none"> <li>• <b>D1-S5</b> Big Data Analytics and Algorithms</li> <li>• <b>D1-S6</b> Smartness Innovation Adoption Session</li> <li>• <b>D2-S1</b> Ad-Hoc and Sensor Networks, and Wireless Networks for Smart Living Spaces</li> <li>• <b>D2-S2</b> Software Design and Development of IoT-Based Smart Applications</li> <li>• <b>D2-S3</b> Quality of Service and Information and Cyber Security for Smart Living Spaces</li> <li>• <b>D2-S4</b> Big Data Processing for Smart Health Applications</li> <li>• <b>D2-S5</b> Technological Innovations for Smart Cities</li> <li>• <b>D2-S6</b> Internet of Things (IoT) – Smart Appliances and Wearable Computing Devices – ICT Architecture</li> <li>• <b>D2-S7</b> High Performance Computing and Real-Time of Big Data Processing</li> <li>• <b>D2-S8</b> Internet of Things – Security, Privacy &amp; Reliability</li> <li>• <b>D3-S1</b> Smart Collaborative Platforms and Logistics</li> <li>• <b>D3-S2</b> Cyber Physical Energy Systems</li> </ul>	<p>Science and Technology, Rolla, USA</p> <ul style="list-style-type: none"> <li>• <b>Tutorial II:</b> <i>The Green Internet of Things.</i> Dr. Fabrice Saffre, Etisalat BT Innovation Centre (EBTIC) in Abu Dhabi, UAE</li> <li>• <b>Tutorial III:</b> <b>Solving complex optimization problems.</b> <i>Prof. El-Ghazali TALBI, Polytech'Lille - University of Lille 1, France, Leader of the team DOLPHIN</i></li> <li>• <b>Tutorial IV:</b> <i>New Generation of Big Data Processing Systems: Technologies, Challenges and Opportunities</i> Dr. Sherif Sakr, College of Public Health and Health Informatics at King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia</li> <li>• <b>Tutorial V:</b> <i>Privacy and Security Augmented Smart Grid and Microgrid Optimization and Communications.</i> Dr. Suleyman Uludag, University of Michigan – Flint, USA</li> </ul>
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**Smartness Innovation Adoption Session**

**Smartness Innovation Adoption Forum**

# DETAILED PROGRAM

## MORNING

Opening Ceremony: 10:00 – 10:30  
Constellation Ballroom

**Keynote I:** Big Data Transforming Industries  
**Presenter:** Dr. Michael Perrone, IBM T. J. Watson Research Center, NY, USA  
**Time:** 10:30 – 11:15  
**Room:** Constellation Ballroom

**Keynote II:** Smart Cities and Social Media  
**Presenter:** Prof. Christian Wagner, City University Hong Kong, China  
**Time:** 11:30 – 12:15  
**Room:** Constellation Ballroom

**Poster Session**  
**Time:** 09:00 - 12:15, 13:45 – 17:00  
**Room:** Function Area

## AFTERNOON

**DISI: Smart Cities and Advanced Network Technologies**  
**Session Chair:** Liren Zhang (UAE University), **Session Co-Chair:** Hussain Al-Ahmad (Khalifa University, UAE)  
**Time:** 13:45 – 15:45  
**Room:** Ara

Orchestrating Access to Smart City Services	Mervat Abu-Elkheir (Mansoura University, Egypt); <u>Hossam S. Hassanein</u> (Queen's University, Canada)
Spectral Phase Coding Based LR-PON	<u>Ziyad Almatroudi</u> (Zain SA & KSU, Saudi Arabia); Amr Ragheb, Abdelouhab Bentrchia and Habib Fathallah (King Saud University, Saudi Arabia)
A Survey of in Vivo WBAN Communications and Networking: Research Issues and Challenges	<u>Hadeel Elayan</u> (Khalifa University, UAE); Raed Shubair (MIT, USA)
Practical Device-Centric WiFi/Cellular Link	Karim Jahed, Marwan Fawaz and <u>Sanaa Sharafeddine</u> (Lebanese

Aggregation Mechanism for Mobile Devices	American University, Lebanon)
Advanced Demand Response Solutions for Capacity Markets	<u>Rim Kaddah</u> and Daniel Kofman (Telecom Paristech, France); Fabien Mathieu (Alcatel-Lucent Bell Labs France & LINC, France); Michał Pióro (Lund University, Sweden)
COMPOSE: A Composite Embedded Software Synthesis Approach	<u>Projjol Ray</u> , Rainer Leupers and Gerd H. Ascheid (RWTH Aachen University, Germany)

<p><b>DIS2: Smart Processing and Big Data Mining</b>  <b>Session Chair: Antonio Capodieci (University of Salento Italy), Session Co-Chair: Mohamad Hamdan (Heriot-Watt University Yarmouk University, Jordan)</b>  <b>Time: 13:45 – 15:45</b>  <b>Room: Antila</b></p>	
Predicting the Innovation Activity of Chemical Firms Using an Ensemble of Decision Trees	Petr Hajek (University of Pardubice, Czech Republic); <u>Jan Stejskal</u> (University of Pardubice, Faculty of Economics and Administration, Czech Republic)
Exploiting Location Based Social Networks in Business Predictions	<u>Ola Al-Sonosy</u> (Ain Shams University & Faculty of Computers and Information Sciences, Egypt); Sherine Rady (Ain Shams University & Heidelberg University, Egypt); Nagwa Badr and Mohamed Hashem (Ain Shams University, Egypt)
User-Weighted Sentiment Analysis for Financial Community on Twitter	<u>Alpaslan Burak Eliaçık</u> and Nadia Erdogan (Istanbul Technical University, Turkey)
Emotion Identification in FIFA World Cup Tweets Using Convolutional Neural Network	<u>Dario Stojanovski</u> , Gjorgji Strezoski, Gjorgji Madjarov and Ivica Dimitrovski (Faculty of Computer Science and Engineering - Skopje, Macedonia, the former Yugoslav Republic of)
Seeking Information in Specific Domain Using Ontology Terms: To Substitute or to Combine?	<u>Azilawati Azizan</u> (UiTM Perak, Malaysia); Zainab Abu Bakar (Universiti Teknologi MARA & Faculty of Computer & Mathematical Sciences, Malaysia)

<p><b>DIS3: Internet of Things (IoT) - Security, Privacy, Trust and Reliability</b>  <b>Session Chair: Frode Eika (Oslo and Akershus University, Norway), Session Co-Chair: Ashraf Taha (KSU, Saudi Arabia)</b>  <b>Time: 13:45 – 15:45</b>  <b>Room: Jabbah</b></p>	
Having 4G, Enabling Cloud Based Execution for NFC Based Financial Transactions	<u>Ismail Turk</u> and Ahmet Cosar (Middle East Technical University, Turkey)
A Novel Evaluation Criteria to Cloud Based Access Control Models	Younis A Younis (Liverpool John Moores University, United Kingdom); Kashif Kifayat and <u>Madjid Merabti</u> (Liverpool John Moores University, United Kingdom)
Classification and Analysis of IEEE 802.15.4 MAC Layer Attacks	Yasmin Amin (German University in Cairo & GUC, Egypt); <u>Amr Talaat</u> (Germany University in Cairo, Egypt)
Identifying Interdependencies Using Attack Graph Generation Methods	Kirsty E Lever, Kashif Kifayat and <u>Madjid Merabti</u> (Liverpool John Moores University, United Kingdom)
Touch Interfaces and Keylogging Malware	<u>Dale Rowe</u> , <u>Samuel Moses</u> , <u>Jon Mercado</u> and Allie Larson (Brigham Young University, USA)
A Secure Mobile Agent Protocol for Vehicular Communication Systems	Dina Shehada, Chan Yeob Yeun, Jamal Zemerly and Mahmoud Al-Qutayri (Khalifa University, UAE); Yousof Al-Hammadi (Khalifa University of Science Technology and Research, UAE)

**Tutorial I:** Security and Privacy of Big Data in a Cloud Environment  
**Presenter:** Prof. Sanjay Kumar Madria, Missouri University of Science and Technology, Rolla, USA  
**Time:** 13:45 – 15:45  
**Room:** **Constellation Ballroom 2**

**DIS4: Next Generation of Mobile Networks, Mobile Management and Mobile Computing**  
**Session Chair:** Abderrahmane Lakas (UAE University, UAE), **Session Co-Chair:** Dale Rowe (Brigham Young University, USA)

**Time:** 16:00 – 17:40

**Room:** **Ara**

Achieving Spectral and Energy Efficiencies in Multi-Cell Networks	<u>Bilal Maaz</u> (University of Versailles, France); Kinda Khawam (Université de Versailles, France); Samir Tohme (University of Versailles, France)
Optimized Routing Algorithm for Mobile Multicast Source in Wireless Mesh Networks	<u>Mistura Laide Sanni</u> (International Islamic University Malaysia & Obafemi Awolowo University, Malaysia); Aisha-Hassan Hashim (International Islamic University Malaysia, Malaysia); Wan H Hassan (M'sia-Japan International Institute of Technology, UTM KL, Malaysia); Farhat Anwar and Gharib Ahmed (International Islamic University Malaysia, Malaysia)
SPMA: An Innovative Solution for Future Smart Networks in Macrocellular Suburban Environment	<u>Muhammad Usman Sheikh</u> , Sharareh Naghdi and Jukka Lempiäinen (Tampere University of Technology, Finland)
Soft and Stable Routing Protocol for Cognitive Radio VANETs Considering Cognitive Users Mobility	Omidabedi Davarani (IUST, Iran); <u>Sima Bemaninejad</u> (Iran University of Science and Technology, Iran)
Enhanced WSN Localization of Moving Nodes Using a Robust Hybrid TDOA-PF Approach	<u>Hadeel Elayan</u> (Khalifa University, UAE); Raed Shubair (MIT, USA)

**DIS5: Big Data Analytics and Algorithms**

**Session Chair:** Antonio Capodiceci (University of Salento, Italy), **Session Co-Chair:** Ioannis Karamitsos (University of Sunderland, UK)

**Time:** 16:00 – 17:40

**Room:** **Antila**

Image Classification Using Appearance Based Features	<u>Dina Masri</u> (Masdar, UAE); Zeyar Aung and Wei Lee Woon (Masdar Institute of Science and Technology, UAE)
An Investigation Into the Implementation Factors Affecting the Success of Big Data Systems	<u>Patrick Cato</u> , Philipp Gölzer and Walter Demmelhuber (University of Erlangen-Nuremberg, Germany)
Multimodal Context based-adaptive Architecture for multimedia documents	<u>Hajar Khallouki</u> and Mohamed Bahaj (Hassan 1 University, Morocco)
Data Driven Decision Making for Sustainable Smart Environments	Sridhar Chitlur Shraavan and <u>Achim P. Karduck</u> (Furtwangen University, Germany)

**D1S6: Smartness Innovation Adoption Session**

**Session Chairs:** *Leila Ismail (UAE University, UAE), Achim. P. Karduck(Furtwangen University, Germany), Jie Liu (Fudan University Shanghai, China)*

**Time:** 16:00 – 17:40

**Room:** **Jabbah**

Cloud Computing in Smart Innovation Ecosystems	<u>Leila Ismail</u> (UAE University, UAE)
Smart Technologies and SEED (Social, Economic, and Ecologic Development)	<u>Achim P. Karduck</u> (Furtwangen University, Germany)
Smart Enterprises and SEED	<u>Jie Liu</u> (Fudan University Shanghai, China)
Capturing Video Portfolio: Statement by Participants	Achim P. Karduck (Furtwangen University, Germany) and Leila Ismail (UAE University, UAE)

**Tutorial II: The Green Internet of Things**

**Presenter:** Dr. Fabrice Saffre, Etisalat BT Innovation Center (EBTIC) in Abu Dhabi, UAE

**Time:** 16:00 - 17:40

**Room:** **Constellation Ballroom 2**

**Departure for Marina Cruise Social Event: 18:00**

**Marina Cruise Social Event: 18:30 – 20:30**

## Day 2: Monday 2 November 2015

### MORNING

**Keynote III:** Accelerating the Evolution of Smarter Cities with the Internet of Things  
**Presenter:** CTO Gary Michael Schneider, Global Technical Leadership, IBM, USA  
**Time:** 08:45 – 09:45  
**Room:** **Constellation Ballroom 3**

**D2S1: Ad-Hoc and Sensor Networks and Wireless Networks for Smart Living Spaces**  
**Session Chair:** Amr Talaat (Germany University in Cairo Egypt), **Session Co-Chair:** Seyed Mohammadbagher Jafari (University of Tehran, Iran)  
**Time:** 09:45 – 11:45

**Room:** Ara

Super-Gaussian non-Stationary Audio Noises Sparse Representation	Ali Pourmohammad (Amirkabir University of Technology, Iran); <u>Mostafa Abedi</u> (Sadjad University of Technology, Iran)
Optimal Beacon Interval for TDMA-based MAC in Wireless Sensor Networks	<u>Yulong Xing</u> , Yongrui Chen, Weidong Yi and Chenghua Duan (University of Chinese Academy of Sciences, P.R. China)
Q-DSR Protocol in Vehicular Ad-hoc Networks	<u>Doaa Al-Terri</u> (KUSTAR, UAE); Hadi Otrok (Khalifa University of Science, Technology & Research (KUSTAR), UAE); Hassan Barada (Khalifa University of Science, Technology and Research, UAE); Mahmoud Al-Qutayri (Khalifa University, UAE); Raed Shubair (MIT, USA); Yousof Al-Hammadi (Khalifa University of Science Technology and Research, UAE)
Effects of Adaptable Channelization in Wi-Fi Networks	<u>Abid Hussain</u> (National University of Science and Technology Islamabad Pakistan, Pakistan); Nazar Saqib (NUST, Pakistan)

**D2S2: Software Design and Development of IoT-Based Smart Applications**  
**Session Chair:** Robert Seelinger (Frauhofer Institute FOKUS, Germany), **Session Co-Chair:** Vinod. P (SCMS School of Engineering and Technology, India)  
**Time:** 09:45 – 11:45

**Room:** Antila

Smart Unified Interface for People with Disabilities At the Work Place	<u>Ghassan Kbar</u> (Riyadh Techno Valley-Research Center, Saudi Arabia)
A Two-Stage Binarizing Algorithm for Automatic 2D:4D Finger Ratio Measurement of Hands with Non-Separated Fingers	<u>Frode Eika Sandnes</u> (Oslo and Akershus University, Norway)
Provenance Ontology Model for Land Administration Spatial Data Supply Chains	Muhammad Sadiq (Curtin University & CRCSI, Australia); Geoff W West (Curtin University of Technology, Australia); <u>David A McMeeken</u> , Lesley Arnold and Simon Moncrieff (Curtin University, Australia)
ENHANCED FRACTAL IMAGE COMPRESSION USING QUADTREE DECOMPOSITION AND HUFFMAN Coding	<u>Rasha Adel Ibrahim</u> (College of Engineering & Technology, Arab Academy for Science, Technology and Maritime Transport, Egypt); Sherin Youssef (Arab Academy For Science and Technology, Egypt); Saleh Mesbah (Saleh. Mesbah, Egypt)
Browsing Spatial Knowledge with Linked Ontologies	<u>David A McMeeken</u> (Curtin University, Australia); Tristan W Reed (Curtin University & Collaborative Research Centre for Spatial Information, Australia); Femke Reitsma (University of Canterbury, Australia)



**Tutorial III: Solving Complex Optimization Problems****Presenter:** Prof. El-Ghazali Talbi, Polytech'Lille – University of Lille I, France**Time:** 09:45 - 11:45**Room:** **Constellation Ballroom 2****D2S3: Quality of Service and Information and Cyber Security for Smart Living Spaces****Session Chair:** *Sufian Hameed (National University of Computer and Emerging Sciences, Pakistan),***Session Co-Chair:** *Ziyad Almatroudi (International Carriers and Wholesale, Zain SA, KSU, Saudi Arabia)***Time:** 12:00 – 13:00**Room:** **Ara**

Error Correction for Video Streaming to Enhance MPEG Performance Quality	<u>Ashraf A. Taha</u> (KSU, Saudi Arabia); Aya I. Maiyza (Informatics Research Institute - City of Scientific Research and Technological Applications, Egypt)
Quality and Human Errors in IT Service Infrastructures - Human Error Based Root Causes of Incidents and Their Categorization	<u>Kari Saarelainen</u> (University of Eastern Finland & KPMG Finland, Finland); Marko Jäntti (University of Eastern Finland, Finland)
Optimized Anti-Collision Algorithm in RFID Systems for Smart Living Spaces	<u>Mohsen Chegin</u> (Islamic Azad University, Iran)

**D2S4: Big Data Processing for Smart Health Applications****Session Chair:** *Jan Stejskal (University of Pardubice, Czech Republic), Session Co-Chair: Sanaa Sharafeddine (Lebanese American University, Lebanon)***Time:** 12:00 – 13:00**Room:** **Antila**

Multi-objective Optimization Modeling of Interference in Home Health Care Sensors	<u>Mohammad Hamdan</u> (Heriot-Watt University & Yarmouk University/Jordan, Jordan); Muneer Bani Yassein and Hisham Shehadeh (JUST, Jordan)
Gene-disease association through topological and biological feature integration	<u>Eileen Marie Hanna</u> (United Arab Emirates University, UAE); Nazar Zaki (UAE University, UAE)
A New Multi Watermarking Algorithm for Medical Images Using DWT and Hash Functions	Fatma Taher (Khalifa University, UAE); Alavi Kunhu (Cochin College of Engineering and Technology, UAE); <u>Hussain Al-Ahmad</u> (Khalifa University, UAE)

**AFTERNOON****Keynote IV: Industrial Internet – Driving Value by Connecting People, Data, Machines and the Relationship to Energy and Smart Cities****Presenter:** **Dr. Babu Narayanan, General Electric Global Research, Bangalore, India****Time:** 14:30 – 15:30**Room:** **Constellation Ballroom 3**

**D2S5: Technological Innovations for Smart Cities****Session Chair: Hesham El-Sayed (UAE University, UAE), Session Co-Chair: Ziyad Almatroudi (International Carriers and Wholesale, Zain SA, KSU, Saudi Arabia)****Time: 15:30 – 17:15****Room: Ara**

Study of flow streams as a performance parameter for Data Centers	<u>Ioannis Karamitsos</u> (University of Sunderland, United Kingdom)
Solar Powered Air Cooling for Idle Parked Cars: Architecture and Implementation	<u>Sabah Shams</u> and Kin Fai Poon (Khalifa University, UAE); Dymitr Ruta (Etisalat British Telecom Innovation Centre, UAE)
Towards Personalized Smart City Guide Services in Future Internet Environments	<u>Robert Seeliger</u> (Fraunhofer Institute FOKUS, Germany)
ZEIN: An Indoor Zigbee Planning Tool	<u>Mahmoud Hany</u> (German University in Cairo, Egypt); Amr Talaat (Germany University in Cairo, Egypt)
Maximization of Social Welfare in Deregulated Electricity Markets with Intermediaries	<u>Ryo Hase</u> and Norihiko Shinomiya (Soka University, Japan)

**D2S6: Internet of Things – Smart Appliances & Wearable Computing Devices, ICT Architecture****Session Chair: Mahmoud Alahmad (UAE University, UAE), Session Co-Chair: Mohamad Usman Sheikh (Tampere University of Technology, Finland)****Time: 15:30 – 17:15****Room: Antila**

A Sensor Fusion Wearable Health-Monitoring System with Haptic Feedback	<u>Filippo Sanfilippo</u> (Aalesund University College, Norway); Kristin Ytterstad Pettersen (Norwegian University of Science and Technology, Norway)
Fuzzy rule learning with ACO in epilepsy crisis identification	<u>Paula Vergara</u> , Jose R. Villar, Enrique Cal and Manuel Menéndez (University of Oviedo, Spain); Javier Sedano (Technological Institute of Castilla y Leon, Spain)
Biometric Key Generator With Applications in On-Device Encryption	Sree Vivek (Indian Institute of Technology Madras, India); <u>Rajkumar Ramasamy</u> (Samsung Research and Development Institute, Bangalore, India)
Integrating Cost Analysis in the Cloud: A SoS Approach	Evangelia Filiopoulou, Persefoni Mitropoulou, Anargyros Tsadimas, Christos Michalakis, <u>Mara Nikolaidou</u> and Dimosthenis Anagnostopoulos (Harokopio University of Athens, Greece)
Meta Opcode Space for Morphed Malware Detection	<u>Vinod P</u> (SCMS School of Engineerin & Technology, India)

**Tutorial IV: New Generation of Big Data Processing Systems: Technologies, Challenges and Opportunities****Presenter: Dr. Sherif Sakr, College of Public Health and Health Informatics at King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia****Time: 15:30 - 17:15****Room: Constellation Ballroom 2**

<b>D2S7: High Performance Computing and Real-Time of Big Data Processing</b> <b>Session Chair: Ghassan Kbar (Riyadh Techno Valley-Research Center Saudi Arabia), Session Co-Chair: Elizabeth Chang (University of New South Wales and Australian Defence Force Academy, Australia)</b> <b>Time: 17:30 – 18:50</b> <b>Room: Ara</b>	
A Comprehensive Assessment System to Optimize the Overlap in DCT-HMM for Face Recognition	Muhamad Abdulghafour, <u>Xining Wang</u> and Yu Cai (New York Institute of Technology, P.R. China)
An Efficient and Scalable Recommender System for the Smart Web	<u>Alejandro Baldominos</u> (Universidad Carlos III de Madrid, Spain); Yago Saez (Calos III University of Madrid, Spain); Esperanza Albacete (Carlos III University of Madrid, Spain); Ignacio Marrero (Zed Worldwide, Spain)
Entropy based optimal multilevel thresholding using cuckoo optimization algorithm	<u>Seyed Jalaeddin MousaviRad</u> (University of Kashan, Iran); Hossein Ebrahimpour (The university of Kashan, Kashan, I.R.Iran & The university of Newcastle,NSW, Australia, Australia)
Real-Time Clustering of Massive Geodata for Online Maps to Improve Visual Analysis	Aragats Amirkhanyan (Hasso Plattner Institute, University of Potsdam, Germany); Feng Cheng (University of Potsdam, Germany); Christoph Meinel (Hasso Plattner Institute, University of Potsdam, Germany)

<b>D2S8: Internet of Things – Security, Privacy and Reliability</b> <b>Session Chair: David McMeeken (Curtin University, Australia), Session Co-Chair: Zouheir Trabelsi, UAE University, UAE</b> <b>Time: 17:30 – 18:50</b> <b>Room: Antila</b>	
Secure and Flexible Grid Computing Based Intrusion Detection System Using Mobile Agents and Cryptographic Traces	<u>Mohammed Ennahbaoui</u> (Laboratory of Mathematics, Computing and Applications, University of Mohammed V, Rabat Morocco, Morocco); Hind Idrissi and Said El Hajji (Laboratory of Mathematics, Computing and Applications, University of Mohammed V, Morocco)
PiMail: Affordable, Lightweight and Energy-Efficient Private Email Infrastructure	<u>Sufian Hameed</u> , Muhammad Arsal Asif and Farhan Kamal Khan (National University of Computer and Emerging Sciences, Pakistan)
SIM in Light of Big Data	Florian Gottwalt (Queen’s University Belfast, United Kingdom); <u>Achim P. Karduck</u> (Furtwangen University, Germany)

**Departure for Gala Dinner (Hilton Dubai Jumeirah Resort): 19:20**  
**Gala Dinner: 20:00 – 22:00**

## Day 3: Tuesday 3 November 2015

### MORNING

**Keynote V:** 50 years of evolution Smart Cities and empowerment of intelligent logistics ecosystems on social, economic and environmental development

**Presenter:** Prof. Elizabeth Chang, University of New South Wales and Australian Defence Force Academy, Australia

**Time:** 09:00 - 10:00

**Room:** **Constellation Ballroom 3**

#### **Smartness Innovation Adoption Forum:**

**Forum Co-Chairs:** Achim P. Karduck (Furtwangen University, Germany) and Jie Liu, (Fudan, University Shanghai, China)

**Distinguished Participants:** Leila Ismail (UAE University, UAE), Michael Perrone (IBM T. J. Watson Research Center, NY, USA), Elizabeth Chang (University of New South Wales and Australian Defence Force Academy, Australia), Gary Michael Schneider (IBM Global Technical Leadership, USA), Christian Wagner (City University Hong Kong, China), El-Ghazali Talbi (Polytech'Lille - University of Lille 1, France)

**Time:** 10:00 - 11:00

**Room:** **Constellation Ballroom 3**

#### ***D3S1: Smart Collaborative Platforms and Logistics***

**Session Chair:** Rajkumar Ramasamy (Samsung Research and Development Institute, Bangalore, India),

**Session Co-Chair:** Ghassan Kbar (Riyadh Techno Valley-Research Center Saudi Arabia)

**Time:** 11:15 – 13:00

**Room:** **Ara**

Building MedWeight Smart Community Using Social Networking Technology	<u>Giannis Meletakis</u> , Mara Nikolaidou and Dimosthenis Anagnostopoulos (Harokopio University of Athens, Greece)
Factors Affecting Knowledge Sharing in Information Systems Development Projects	<u>Seyed Mohammadbagher Jafari</u> , Neda Zare Suliemani and Abas Khademi Zare (University of Tehran, Iran)
An Innovative Approach to Digital Engineering Services Delivery: An Application in Maintenance	<u>Antonio Capodiec</u> i and Luca Mainetti (University of Salento, Italy); Leila Alem (Thoughtworks, Australia)
A Game-Based Learning Software Model	<u>Shamsa Abdulla Salem Ali</u> and Nafla Saeed Al Darei (CIT, UAE); Boumediene Belkhouche (UAE University, UAE)
An Aqua Agent-Based Model to Simulate Fish Disease Dynamics with Reference to Norwegian Aquaculture	<u>Saleh Alaliyat</u> and Harald Yndestad (Aalesund University College, Norway)

**D3S2: Cyber-Physical Energy Systems**

**Session Chair:** **Mohamad Hamdan** (Heriot-Watt University Yarmouk University, Jordan), **Session Co-Chair:** **Muhammad Usman Sheikh** (Tampere University of Technology, Finland)

**Time:** 11:15 – 13:00

**Room:** **Antila**

Piezoelectric Self-Biased Energy Harvesting Circuit for Smart City Applications	Mahmoud Alahmad (UAEU, UAE); Shadi Tawfiq (UAE University, UAE)
A Comparison Study of System Identification Using Hammerstein Model	Selçuk Mete (University of Erciyes & Turk Telekom A S, Turkey); Hasan Zorlu and Şaban Özer (University of Erciyes, Turkey)
Prediction of Iran's Annual Electricity Demand: Artificial Intelligence Approaches	Homayoun Hamed Moghadam Rafati (SUT, Iran); Hamed Davari (AUT, Iran); Mahdi Jalili (RMIT University, Australia); Reza Maknoon (AUT, Iran)

**Tutorial V:** Privacy and Security Augmented Smart Grid and Microgrid Optimization and Communicaitons

**Presenter:** Dr. Suleyman Uludag, University of Michigan – Flint, USA

**Time:** 11:15 - 13:00

**Room:** **Constellation Ballroom 2**

**AFTERNOON**

**(Chair: Leila Ismail) Closing Ceremony and Group Photo**

**14:30 – 15:00**

**Safari Social Event**

**Pickup from the Hotel Venue at 15:30**