Preliminary Program Summary

	Suite 3	Suite 4	Suite 5	Suite 1	Suite 7	Suite 8	Suite 9
26 October 2015 (Monday)							
8:45-9:00	CIT-2015 and DASC-2015 Opening Ceremony at Suite 3			IUCC-2015 and PICom-2015 Opening Ceremony at Suite 1			
9:00-9:50	Keynote Speech 1 at Suite 3			Keynote Speech 3 at Suite 1			
9:50-10:40	Keynote Speech 2 at Suite 3			Keynote Speech 4 at Suite 1			
10:40-11:00	Coffee Break						
11:00-12:30	CIT-1	CIT-2	DASC-1	IUCC-1	MSNCom-1	PICom-1	IBDS+SOWN
12:30-13:30	Conference Reception Lunch						
13:30-15:30	CIT-3	CIT-4	DASC-2	IUCC-2	MSNCom-2	PICom-2	ITA-1
15:30-16:00	Coffee Break						
16:00-18:00	CIT-5	CIT-6	DASC-3	IUCC-3	AUCN-1+SocialSec	ASCC-1	WISH+ASCC-2
27 October 2015 (Tuesday)							
	Suite 3	Suite 4	Suite 5	Suite 1	Suite 7	Suite 8	Suite 9
9:10-10:00	Keynote Speech 5 at Suite 3			Keynote Speech 6 at Suite 1		Keynote Speech 7 at Suite 9	
10:00-10:30	Coffee Break						
10:30-12:30	CIT-7+CIT-8	SMMA+IWSCA	WCTU+MT4H	IntelNet	IoT-Smart+IoTBDH-2	ITA-2	WNM-1
12:30-13:30	Conference Reception Lunch						
13:30-15:30	CIT-9+CIT-10	IUCC-4+IUCC-5	DASC-4	AUCN-2+I-SOCA	IoTBDH-1	MultiCom	ICTA
15:30-16:00	Coffee Break						
16:00-18:00	CIT-11	IUCC-6	PICom-3	PICom-4+WNM-2	CEWE	BigData	HWNQoE
18:30-21:00	Dinner						
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9:00-11:00	CIT-12+CIT-13	VEAI	PCIS				
	Coffee Break and Conference Conclusion						

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Part I: TECHNICAL SESSIONS OF CIT-2015 and Associated Workshops/Symposia

CIT-2015 TECHNICAL SESSIONS
26 October 2015 Monday

11:00-12:30   Session CIT-1: Wireless Communication and 5G Technologies (I) (Room: Suite 3)

Session Chair:

- Automatic Modulation Classification in Cognitive Radio Using Multiple Antennas and Maximum-Likelihood Techniques
  Ahmed O. Abdul Salam, Ray E. Sheriff, Saleh R. Al-Araji, Kahtan Mezher, and Qassim Nasir
- A Two-Tier Evolutionary Game Theoretic Approach to Dynamic Spectrum Sharing through Licensed Shared Access
  Ahsan Saadat, Gengfa Fang, and Wei Ni
- Adaptive Rate Control *in* Smart Grid Heterogeneous Communications Networks
  Weifeng Zhong, Rong Yu, Yan Zhang, Yue Gao, and Stein Gjessing
- Application Sequence Prediction for Energy Consumption Reduction in Mobile Systems
  Ismat Chaib Draa, Jamel Tayeb, Smail Niar, and Emmanuelle Grislin
- Optimal Real Time Pricing Based on Income Maximization for Smart Grid
  Sahar Ahmadzadeh and Kun Yang
- Reduced Complexity MIMO Receiver with Real-Valued Beamforming
  Craig Miller, Wei Liu, and Richard J. Langley

11:00-12:30   Session CIT-2: Wireless Communication and 5G Technologies (II) (Room: Suite 4)

Session Chair:

- Exploiting the DASH Framework to Promote a Dynamic Transport Selection for Video Streaming over LTE Networks
  Luis Diez, Ramón Agüero, Joel Penhoat, Emile Stéphan, and Fabien Heliot
- Channel-Aware Scheduling in FFR-Aided OFDMA-Based Heterogeneous Cellular Networks
  Jan García-Morales, Guillem Femenias, and Felip Riera-Palou
- Evidence Theory Based Self-Interference Suppression for Two-Way Full-Duplex MIMO Relays
  Yi Yang, Yanhua Sun, Enchang Sun, and Yanhua Zhang
- SDR-Based ADS-B with Dual-Frequency for UAS: A Universal Design
  Yueying Zhang, Keju Wang, and Hang Long
- Acoustic Radar Weak Target Detection Method Based on Mellin Transform
  Dinghe Wang, Qinglong Bao, and Zengping Chen
- Hidden Markov Model for Improved Ultrasound-Based Presence Detection
  Paola Jaramillo and Jean-Paul Linnartz

13:30-15:30   Session CIT-3: Pattern Recognition, Data Mining, and Artificial Intelligence (I) (Room: Suite 3)

Session Chair:

- SMART: An Application Framework for Real Time Big Data Analysis on Heterogeneous Cloud Environments
  Julio C.S. dos Anjos, Marcos D. Assunção, Jean Bez, Claudio Geyer, Edison Pignaton de Freitas, Alexandre Carissimi, João Paulo C. L. Costa, Gilles Fedak, Felix Freitag, Volker Markl, Paul Fergus, and Rubem Pereira
- Automatic Classification and Taxonomy Generation for Semi-structured Data
  Bernardo Pereira Nunes, Giseli Rabello Lopes, and Marco Antonio Casanova

- Artificial Intelligence for Detecting Preterm Uterine Activity in Gynecology and Obstetric Care
  Ibrahim Olatunji Idowu, Paul Fergus, Abir Hussain, Chelsea Dobbins, Mohammed Khalaf, Raul V. Casana Eslava, and Robert Keight
- A Novel Continuous Learning and Collaborative Decision Making Mechanism for Real-Time Cooperation of Humanoid Service Robots
  Ming Jiang and Li Zhang
- An Associative Classifier Adopting Fuzzy Weighted Rules Based on Information Gain
  Yi Chai, Guixia Kang, Ningbo Zhang, Yanyan Guo, and Jingning Wang
- A Neural Network Clamping Force Model for Bolt Tightening of Wind Turbine Hubs
  Emanuele Lindo Secco, Atulya Nagar, Christian Deters, Helge Wurdemann, Hak-Keung Lam, and Kaspar Althoefer
- WARank: Weighted Asymmetric Ranking for Approximate Nearest Neighbor Search
  Yuan Cao, Heng Qi, Keqiu Li, Yingwei Jin, and Zhiyang Li
- An Approach of Vector Space Model to Link Concrete Concepts with Wiki Entities
  Lucas Borges Monteiro, Li Weigang, and Ahmed Abdelfattah Saleh

13:30-15:30 Session CIT-4: Pattern Recognition, Data Mining, and Artificial Intelligence (II) (Room: Suite 4)

Session Chair:

- Combining Fuzzy Rough Set with Salient Features for HRM Classification
  Asia L. Jabar and Tarik A. Rashid
- Word-Sense Disambiguation of Korean Predicates Using Sejong Electronic Dictionary and Unsupervised Learning
  Sangwook Kang, Yeontaek Oh, Minho Kim, and Hyuk-chul Kwon
- Online Pedestrian Tracking Using Ensemble Color Feature
  Bo Zhang, Yi Xu, and Xiaokang Yang
- A Data-Driven Hybrid Optimization Model for Short-Term Residential Load Forecasting
  Xiu Cao, Shuanshuan Dong, Zhenhao Wu, and Yinan Jing
- Multi-model or Single Model? A Study of Movie Box-Office Revenue Prediction
  Guijia He and Soowon Lee
- An Experimental Evaluation of Aggregation Algorithms for Processing Top-K Queries
  Liang Zhu, Qin Ma, Weiyi Meng, Mingqian Yang, and Fang Yuan
- Equalizing Energy Distribution in Sensor Nodes through Optimization of RPL
  Juuso Nurmio, Ethiopia Nigussie, and Christian Poellabauer
- Model-Based Self-Tuning PI Control of Bolt-Nut Tightening for Wind Turbine Bearing Assembly
  Christian Deters, Hak-Keung Lam, Mark Barrett-Baxendale, and Emanuele Lindo Secco

16:00-18:00 Session CIT-5: Information Technology and Applications (Room: Suite 3)

Session Chair:

- Towards a UML Profile for Privacy-Aware Applications
  Tania Basso, Leonardo Montecchi, Regina Moraes, Mario Jino, and Andrea Bondavalli
- Towards the Use of Unmanned Aerial Vehicles for Automatic Power Meter Readings
  Jose Rodrigues Torres Neto, Roberto Sadao Yokoyama, Azzedine Boukerche, Daniel Ludovico Guidoni, Rodolfo Ipólito Meneguette, and Leandro Aparecido Villas
- Semantic Web Services Discovery Adopting SERIN
  José Renato Villela Dantas, Hermano Albuquerque Lira, Bruno de Azevedo Muniz, Tadeu Matos Nunes, and Pedro Porfírio Muniz Farias
- A Taxonomy-Based Evaluation of Personalized E-Advertisement

Dana A. Al Qudah, Alexandra I. Cristea, Suncica Hadzidedic Bazdarevic, Samar Al-Saqqa, and Rizik M. H. Al-Sayyad

- Linux Enriched Design in Third Generation Wireless Open Access Research Platform
  Muhammad Saad Saud, Anton Paatelma, Markku Jokinen, and Tuomo Hänninen
- An Extension of UML Activity Diagram to Model the Behaviour of Context-Aware Systems
  Ahmed Al-alshuhai and François Siewe
- A Dynamic Power-Aware Scheduling of Mixed-Criticality Real-Time Systems
  Ijaz Ali, Jun-ho Seo, and Kyong Hoon Kim
- Improving Network Efficiency with Simplemux
  Jose Saldana, Ignacio Forcén, Julián Fernández-Navajas, and José Ruiz-Mas

16:00-18:00   Session CIT-6: Multimedia Application and QoS/QoE Provision and Estimation (Room: Suite 4)

Session Chair:

- Network Quality Adaptive Video Transmission
  Fakher Oueslati and Jean-Charles Grégoire
- DICE: A Distributed Protocol for Camera-Aided Video Surveillance
  Hanna Kavalionak, Claudio Gennaro, Giuseppe Amato, and Carlo Meghini
- Recommendation Systems Based on Online User's Action
  Aymen Elkhelifi, Firas Ben Kharrat, and Rim Faiz
- Videoconferencing over OpenFlow Networks: An Optimization Framework for QoS Routing
  Djamel-Eddine Henni, Abdelghani Ghomari, and Yassine Hadjadj-Aoul
- Scorpion: A Solution Using Cooperative Rerouting to Prevent Congestion and Improve Traffic Condition
  Allan Mariano de Souza, Roberto Sadao Yokoyama, Leonardo Castro Botega, Rodolfo Ipolito Meneguette, and Leandro Aparecido Villas
- ETBAC-Based Model in Media Oriented System Transport Network
  Shuaibing Lu, Zhiyi Fang, Guannan Qu, and Song Gao
- CHOKeD: Fair Active Queue Management
  Sanaullah Manzoor, Ghulam Abbas, and Masroor Hussain
- On-the-Fly Process Resource Quarantine for System Stabilization
  Gaku Nakagawa, Hirotaka Kawata, and Shuichi Oikawa

27 October 2015 Tuesday

10:30-12:30   Session CIT-7: Management of Data and Database Systems (Room: Suite 3)

Session Chair:

- Analytical Performance Evaluation of Frame Synchronization for Data with Known, Unequal Distribution over Binary Symmetric Channel
  Boladale M. Isawhe and Maria G. Martini
- Enhancing Aggregation over Uncertain Databases
  Nermin Abdelhakim Othman, Ahmed Sharaf Eldin, and Doaa Saad Elzanfaly
- Marketing or Newsletter Sender Reputation System Using Association Analysis Concept
  Akkarach Kawbunjun, Ubon Thongsatapornwatana, and Woraphon Lilakiatsakun
- SSIE: An Automatic Data Extractor for Sports Management in Athletics Modality
  Felipe Simões, Fabio Matsunaga, Armando Toda, Jacques Brancher, Abdallah Junior, and Rosangela Busto

10:30-12:30   Session CIT-8: Computer Graphics/Image Processing (Room: Suite 3)

Session Chair:

- A Robust Face Recognition System Based on Curvelet and Fractal Dimension Transforms
  Alaa S. Al-Waisy, Rami Qahwaji, Stanley Ipson, and Shumoos Al-Fahdawi
- Accelerating Brain Simulations on Graphical Processing Units
  Engin Kayraklioglu, Tarek El-Ghazawi, and Zeki Bozkus
- Graph Grammar for the Research Information Collection Method According to Research Activities
  Youzou Miyadera, Chiaki Murakami, Koichi Anada, Yasuhiko Morimoto, Shoichi Nakamura, Hiroaki Kaminaga, and Takeo Yaku
- BE-SIFT: A More Brief and Efficient SIFT Image Matching Algorithm for Computer Vision
  Jian Zhao, Hengzhu Liu, Yiliu Feng, Shandong Yuan, and Wanzeng Cai

13:30-15:30   Session CIT-9: Internet of Things (Room: Suite 3)

Session Chair:

- Efficient CP-ABE Attribute/Key Management for IoT Applications
  Lyes Touati and Yacine Challal
- A Proactive Multi-type Context-Aware Recommender System in the Environment of Internet of Things
  Yassmeen Salman, Abdallatif Abu-Issa, Iyad Tumar, and Yousef Hassouneh
- Fog Computing in Healthcare Internet of Things: A Case Study on ECG Feature Extraction
  Tuan Nguyen Gia, Mingzhe Jiang, Amir-Mohammad Rahmani, Tomi Westerlund, Pasi Liljeberg, and Hannu Tenhunen
- Rail Internet of Things: An Architectural Platform and Assured Requirements Model
  Mahmoud Hashem Eiza, Martin Randles, Princy Johnson, Nathan Shone, Jennifer Pang, and Amhmed Bhih
- Remote Temporal Couplers for Multiple Content Synchronization
  Ricardo Mendes Costa Segundo and Celso Alberto Saibel Santos

13:30-15:30   Session CIT-10: Information Technology for Biomedicine and Smart Health (Room: Suite 3)

Session Chair:

- Robust Approach for Medical Data Classification and Deploying Self-Care Management System for Sickle Cell Disease
  Mohammed Khalaf, Abir Jaafar Hussain, Dhiya Al-Jumeily, Russell Keenan, Paul Fergus, and Ibrahim Olatunji Idowu
- Session Resumption-Based End-to-End Security for Healthcare Internet-of-Things
  Sanaz Rahimi Moosavi, Tuan Nguyen Gia, Ethiopia Nigussie, Amir-Mohammad Rahmani, Seppo Virtanen, Hannu Tenhunen, and Jouni Isoaho
- Context-Aware Clinical Knowledge Sharing in Cross-Boundary E-Health: A Conceptual Model
  Obinna Anya, Hissam Tawfik, and Dhiya Al-Jumeily

16:00-17:30   Session CIT-11: Wireless Sensor and Ad Hoc Networks (Room: Suite 3)

Session Chair:

- Minimization and Placement of Sensors in Structurally Observable Networks
  João Paulo Souza Medeiros, Paulo Sergio Motta Pires, João Batista Borges Neto, and Antonio Alfredo Ferreira Loureiro
- Collision-Free Routing Protocol in Multi-hop Wireless Sensor Networks
  Hicham Lakhlef, Julien Bourgeois, Saad Harous, and Jean Frédéric Myoupo
- Measuring Distances with RSSI from Vehicular Short-Range Communications
  Roberto S. Yokoyama, Bruno Y. L. Kimura, Leandro A. Villas, and Edson D.S. Moreira
- THESEUS: A Routing System for Shared Sensor Networks

Mohammadreza Iman, Flavia C. Delicato, Claudio M. de Farias, Luci Pirmez, Igor L. dos Santos, and Paulo F. Pires

- FPGA Based Real Time 'Secure' Body Temperature Monitoring Suitable for WBSN
  Muzaffar Rao, Thomas Newe, Ian Grout, Elfed Lewis, and Avijit Mathur
- Dynamic Searchable Encryption with Multi-user Private Search for Cloud Computing
  Wenjun Luo, Yaqiong Chen, and Yousheng Zhou

28 October 2015 Wednesday

9:00-11:00 Session CIT-12: Utility Computing/Clouding Computing/Ubiquitous Computing (Room: Suite 3)

Session Chair:

- Stochastic Bounding Models for Performance Analysis of Clouds
  Farah Aït-Salaht and Hind Castel-Taleb
- Hybrid and Extensible Architecture for Cloud Infrastructure Deployment
  Enrique Chirivella-Perez, Juan Gutiérrez-Aguado, Jose M. Claver, and Jose M. Alcaraz Calero
- Modelling the Data Aggregator Positioning Problem in Smart Grids
  Guilherme Rolim, Diego Passos, Igor Moraes, and Célio Albuquerque
- A Zero-Penalty Container-Based Execution Infrastructure for Hadoop Framework
  Hang Su, Jiafeng Zhu, Masood Mortazavi, Guangyu Shi, and Dakai Zhu
- Middleware Reconfiguration Relying on Formal Methods
  Nelson Rosa

9:00-11:00 Session CIT-13: Information Security (Room: Suite 3)

Session Chair:

- An Approach to IdM with Privacy in the Cloud
  Jorge Werner, Carla Merkle Westphall, Rafael Weingärtner, Guilherme Arthur Geronimo, and Carlos Becker Westphall
- Scalable Multi-group Key Management for Advanced Metering Infrastructure
  Mourad Benmalek, Yacine Challal, and Abdelmadjid Bouabdallahz
- An Empirical Risk Management Framework for Monitoring Network Security
  Malik Shahzad Kaleem Awan, Pete Burnap, and Omer Rana

WNM-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

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Session Chair:

- Power-Aware QoS Provisioning in OFDMA Small Cell Networks
  Antonios Alexiou, Anastasios N. Bikos, and Christos Bouras
- Power Management and Rate Control Mechanism for Wi-Fi Infrastructure Networks
  Christos Bouras, Vaggelis Kapoulas, Kostas Stamos, Nikos Stathopoulos, and Nikos Tavoularis
- Empirical Performance Models for V2V Communications
  Miguel Sepulcre, Javier Gozalvez, Baldomero Coll-Perales, M. Carmen Lucas-Estañ, and Jose Ramon Gisbert
- SoCar: A Social Car2Car Framework to Refine Routes Information Based on Road Events and GPS
  Walter Balzano, Maria Rosaria Del Sorbo, and Domenico Del Prete

- Power Optimization Technique in Interference-Limited Femtocells in LTE and LTE Advanced Based Femtocell Networks
  Shahrukh Khan and Sahibzada Ali Mahmud
- Analyzing Linear Communication Networks Using the Ribosome Flow Model
  Yoram Zarai, Oz Mendel, and Michael Margaliot

16:00-18:00   Session WNM-2: Wireless Network and Multimedia (Room: Suite 1)
Session Chair:

- A Novel Secure SDN/LTE Based Architecture for Smart Grid Security
  Asad Irfan, Nayab Taj, and Sahibzada Ali Mahmud
- OpenGUFI: An Extensible Graphical User Flow Interface for an SDN-Enabled Wireless Testbed
  Joerg Schultz, Roman Szczepanski, Kay Haensge, Michael Maruschke, Nico Bayer, and Hans Einsiedler
- HTTP Data Offloading Using Multipath TCP Proxy
  Christos Pollalis, Paris Charalampou, and Efstathios Sykas

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Session Chair:

- Intelligent Mobile Framework Based on Swarm Computation
  Xinzheng Niu, Dazhuang Su, and Minhao Cheng
- A Web Service Composition Method Based on Merging Genetic Algorithm and Ant Colony Algorithm
  Zhengde Zhao, Xin Hong, and Shaohua Wang
- The Research on Collaborative Filtering Recommendation Algorithm Based on Improved Clustering Processing
  Shaohua Wang, Zhengde Zhao, and Xin Hong
- The Video Recommendation System Based on DBN
  Cui Hongliang and Qin Xiaona
- Content-centric Network-Based MANET for Streaming Video Transmission
  Olfa Ben Rhaiem, Lamia Chaari Fourati, and Anis Masmoudi

WISH-2015 TECHNICAL SESSIONS
26 October 2015 Monday

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Session Chair:

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  Alaa S. Al-Waisy, Rami Qahwaji, Stanley Ipson, and Shumoos Al-Fahdawi
- An Automatic Corneal Subbasal Nerve Registration System Using FFT and Phase Correlation Techniques for an Accurate DPN Diagnosis
  Shumoos Al-Fahdawi, Rami Qahwaji, Alaa S. Al-Waisy, and Stan Ipsopn
- Breast Cancer Detection Using 1D, 2D, and 3D FDTD Numerical Methods
  A.F. Mirza, F. Abdulsalam, R. Asif, Y.A.S. Dama, M.M. Abusitta, F. Elmegri, R.A. Abd-Alhameed, J.M. Noras, and R. Qahwaji

- The Application of Full-Field Optical Coherence Tomography on Evaluating Film Coating of Pharmaceutical Pellets
  Jinke Zhang, Yaochun Shen, and Yalin Zheng
- Channel Estimation for OFDM FFT/DWT in Multi-carrier Modulation Used in Wireless Telemedicine
  H.S.O. Migdadi, H. Obeidat, K.O. Anoh, N.N. Khatib, J.M. Noras, R. Qahwaji, and R.A. Abd-Alhameed
- Smart Bolus Estimation Taking into Account the Amount of Insulin on Board
  Ahmad M. Al-Taee, Majid A. Al-Taee, Waleed Al-Nuaimy, Zahra J. Muhsin, Hamzah AlZu'bi

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- A Crisis Mitigation Policy for SLA Profit Maximization in Multitenant Database
  Zhenkun Wang, Yongqing Zheng, Lanju Kong, and Zhiyong Chen
- Global Index Oriented Non-Shard Key for Multi-tenant Database
  Xiao Zongshui, Lanju Kong, Qingzhong Li, and Pang Cheng
- An Intention-Topic Model Based on Verbs Clustering and Short Texts Topic Mining
  Tingting Lu, Shifeng Hou, Zhenxiang Chen, Lizhen Cui, and Lei Zhang
- Predictive Models for Energy-Efficient Clouds: An Analysis on Real-Life and Synthetic Data
  Albino Altomare and Eugenio Cesario
- Performance and Resource Prediction at High Utilization for N-Tier Service Systems in Cloud an Experiment Driven Approach
  Wenbin Zhang, Yuliang Shi, Lei Liu, Lizhen Cui, and Yongqing Zheng

I-SOCA-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

13:30-15:30   Session I-SOCA: Internet of Things: Smart Objects, Cloud, and Applications (Room: Suite 1)

Session Chair:

- Extending Event Elements of Business Process Model for Internet of Things
  Hsiao-Hsien Chiu *and* Ming-Shi Wang
- Mapping Security Requirements to Identify Critical Security Areas of Focus in PaaS Cloud Models
  Alex Akinbi and Ella Pereira
- Lightweight Forensics Application: Lightweight Approach to Securing Mobile Devices
  Helen Angela Brumfitt, Bob Askwith, and Bo Zhou
- A Novel Network Topology in Underwater Visible Light Sensor Networks
  Shih-Hao Chang, Rubem Pereira, and Kuei-Ping Shih
- Virtual Resource Allocation and Composition for Data Stream Processing of Online Auditing in Cloud Computing
  Lei Wang and Tuo Li

SMMA-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

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Session Chair:

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  Elena Daehnhardt, Nick K. Taylor, and Yanguo Jing
- Association Rules Mining Based on Clustering Analysis and Soft Sets
  Bo Li, Zheng Pei, and Keyun Qin
- Big Data Analytics in MOOCs
  Yanyan Zheng and Beibei Yin
- A Multi-criteria Review-Based Hotel Recommendation System
  Yashvardhan Sharma, Jigar Bhatt, and Rachit Magon
- The Belief Degrees of Fuzzy Linguistic Values Based on a Fuzzy Formal Context
  Li Yan

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27 October 2015 Tuesday

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Session Chair: Prof. Ella Pereira, Edge Hill University, UK

- Recognition of Fuzzy Characters on Oracle-Bone Inscriptions
  Gao Feng, Xiong Jing, and Liu Yong-ge
- Ontology Description of Chinese Character Semantics
  Jing Xiong, Xin Liu, and Qingsheng Li
- Delaunay and Graph Modal-Based Bagua Layout Text Line Extraction for Shui Script
  Zhang Guofeng and Zhang Weiqin
- A Novel Dynamic Description and Generation Method for Chinese Character
  Qingsheng Li and Quan Liu

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26 October 2015 Monday

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Session Chair:

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  Liang Bu-lin and Huang Chuan

ITA-2015 TECHNICAL SESSIONS
26 October 2015 Monday

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Session Chair:

- An Empirical Evaluation of Software Quality Assurance Practices and Challenges in a Developing Country
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- Evaluating Open Source Software Quality Models Against ISO 25010
  Adewole Adewumi, Sanjay Misra, and Nicholas Omoregbe
- Towards a Distinction between Application State Resources and Data Resources in ROA

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- Use Cases and Development of Software Defined Networks in OpenStack
  Arti Mann, Wei Wei, Ravi Badana, Tong Zhang, and T. Andrew Yang
- Euclidean Distance-Based QoS Metric for Dynamic MAP Selection in HMIPv6 Network
  Esad Kadušić, Nataša Živić, Mirko Škrbić, Mesud Hadžialić, and Narcis Behlilović
- Mining Binary Data with Matrix Algebra
  Ritu Chaturvedi and C.I. Ezeife
- ITSR-HISL: An Improved Model for Trajectory Signature Recognition in Human Interactive Sign Language
  Nehal F. Attia, Sherin M. Youssef, and Saleh M. Elkaffas
- Method to Develop Coded Excitation for Velocimetry in Downhole Drilling
  Weijia Lu, Ran Niu, Longtao Yuan, Xin Qu, Heng Wu, and Jing Ye

27 October 2015 Tuesday

10:30-12:30　Session ITA-2: Information Technology and Applications (II) (Room: Suite 8)
Session Chair:
- Using Relational Algebra on the Specification of Real World ETL Processes
  Vasco Santos and Orlando Belo
- Adaptive Context-Sensitive Spelling Error Correction Techniques for the Extremely Unpredictable Error Generating Language Environments
  Minho Kim, Sung-Ki Choi, Jingzhi Jin, and Hyuk-Chul Kwon
- Practical Target Word Selection Method in Korean to Korean Sign Language Machine Translation
  Minho Kim, Sung-ki Choi, Aesun Yoon, and Hyuk-Chul Kwon
- A Reliable Crisis Information System to Share Data after the Event of a Large-Scale Disaster
  Marcello Cinque, Domenico Cotroneo, Christian Esposito, Mario Fiorentino, and Stefano Russo
- Tracking File's Metadata from Computer Memory Analysis
  Khairul Akram Zainol Ariffin, Ahmad Kamil Mahmood, Jafreezal Jaafar, and Solahuddin Shamsuddin
- Facial Expression Recognition with sEMG Method
  Mingzhe Jiang, Amir-Mohammad Rahmani, Tomi Westerlund, Pasi Liljeberg, and Hannu Tenhunen
- A Correlated Topic Modeling Approach for Facial Expression Recognition
  Rouxin Sang and K.P. Chan
- Improving Camera Pose Estimation for Indoor Marker-less Augmented Reality
  Sud Sudirman and Abdennour El-Rhalibi

Part II: TECHNICAL SESSIONS OF IUCC-2015 and Associated Workshops/Symposia

IUCC-2015 TECHNICAL SESSIONS
26 October 2015 Monday

11:00-12:30　Session IUCC-1: Sensor Networks and Ad Hoc Networks (Room: Suite 1)
Session Chair:
- Wear-I: A New Paradigm in Wearable Computing
  Jianhua Ma and Runhe Huang
- Beaconless Geographic Routing Protocol with Adaptive Delay Timer in Wireless Sensor Networks

Jeongcheol Lee, SeokYoon Kang, ChungJae Lee, Kyong Hoon Kim, and Ki-Il Kim

- Energy-Efficient Location Estimation Using Variable Range Beacons in Wireless Sensor Networks
  Muhammad Farooq-i-Azam, Qiang Ni, Ejaz A. Ansari, and Haris Pervaiz
- Energy Efficient Adaptive Cooperative Communications in Wireless Sensor Networks
  Radwa Ahmed Osman, Xiao-Hong Peng, and Zuoyin Tang
- XML Based Wireless Patient Monitoring System Using Vehicular Ad-Hoc Networks
  Avleen Kaur Malhi and Shalini Batra
- When Smart Phone Meets Vehicle: A New On-Board Unit Scheme for VANETs
  Xiuqi Li, Yong Feng, Feng Wang, and Qian Qian

13:30-15:30   Session IUCC-2: Wireless Networks and Ubiquitous Networks (Room: Suite 1)
Session Chair:

- Integration of QoS Parameters from IEEE 802.11s WLAN Mesh Networks into Logical P2P Overlays
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- A New Relay Node Selection Model for Wireless Community Mesh Networks
  Liang Zhao, Ahmed Y. Al-Dubai, Xianwei Li, and Guolong Chen
- Joint Relay Selection and Resource Allocation for D2D-Enabled Cellular Communications
  Guopeng Zhang, Ru Wang, Shuanshuan Wu, Lin Chen, Bo Dai, Kun Yang, and Liqiang Zhao
- Adaptive Current Level Control Algorithm For Battery-Powered ZigBee Network in Enterprise Settings
  Yitian Zhang, Kun Yang, and Xiao Wang
- Design of Novel Teaching Episodes in Medical Education Using Emerging Experiential Digital Assets - Technology Enabled Medical Education beyond the Gimmicky
  Panagiotis E Antoniou, Eleni Dafli, and Panagiotis D Bamidis
- Increasing Interference Robustness of WiFi Fingerprinting by Leveraging Spectrum Information
  Filip Lemic, Arash Behboodi, Vlado Handziski, and Adam Wolisz
- Channel Capacity Analysis of Blood Capillary-Based Molecular Communication
  Yue Sun, Kun Yang, and Qiang Liu
- Performance Investigation and Comparison between Virtual Networks and Physical Networks Based on an Advanced Testbed Network
  Tong Li, Xiaodan Zhang, Zongzhen Liu, Jingguo Ge, Zhongjiang Yao, Yuepeng E, Yulei Wu, and Lei Zhang

16:00-18:00   Session IUCC-3: Ubiquitous Computing and Ambient Intelligence (Room: Suite 1)
Session Chair:

- Response Time in Switching Scents When Converting Scenes
  Shutaro Homma, Eri Matsuura, Sayaka Matsumoto, Shohei Horiguchi, and Ken-ichi Okada
- Assessing Physical Location as a Potential Contextual Cue For Adaptive Mobile Contact Lists
  Athanasios Plessas, Olga Georgiadou, Vassilios Stefanis, Andreas Komninos, and John Garofalakis
- Anti-counterfeiting Using Irregularities of Magnetic Flux Density
  Hyunho Kang and Keiichi Iwamura
- Automatic Animal Detection from Kinect Sensed Images for Livestock Monitoring and Assessment
  Qiming Zhu, Jinchang Ren, David Barclay, Samuel McCormack, and Willie Thomson
- Minutiae Based Automatic Fingerprint Recognition: Machine Learning Approaches
  Amjad Ali, Rehanullah Khan, Irfan Ullah, Adnan Daud Khan, and Abid Munir
- A Smartphone Management Method to Save Battery Using Bayesian Networks and Fuzzy System
  Jun-Ho Kim and Sung-Bae Cho

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13:30-15:30   Session IUCC-4: Internet of Things & Data Processing and Big Data (Room: Suite 4)

Session Chair:

- A Decentralized Batch-Based Group Key Management Protocol for Mobile Internet of Things (DBGK)
  Mohammed Riyadh Abdmeziem, Djamel Tandjaoui, and Imed Romdhani
- A Dynamic Power Tuning for the Constrained Application Protocol of Internet of Things
  Mamoun Qasem, Ahmed Al-Dubai, Imed, Romdhani, and Muneer Bani Yassien
- E-Trickle: Enhanced Trickle Algorithm for Low-Power and Lossy Networks
  Baraq Ghaleb, Ahmed Al-Dubai, and Elias Ekonomou
- Prototyping and In-Depth Analysis of Big Data Benchmarking
  Divya Pandove and Shivani Goel
- Pota: Maximizing Profit for Task-Level Scheduling for Data Center Networks
  Xiaoyi Tao, Heng Qi, Wenxin Li, Keqiu Li, and Yingwei Jin
- A Data Imputation Method Based on Deep Belief Network
  Zhikui Chen, Siqian Liu, Kunyou Jiang, Han Xu, and Xinru Cheng
- DRISTI: Distributed Real-Time In-Situ Seismic Tomographic Imaging
  Goutham Kamath, Wen-Zhan Song, Paritosh Ramanan, Lei Shi, and Junjie Yang

13:30-15:30   Session IUCC-5: Resource Management and Scheduling (Room: Suite 4)

Session Chair:

- Load Scheduling Based on an Advanced Real-Time Price Forecasting Model
  Xing Luo, Xu Zhu, and Eng Gee Lim
- On the Implementation of RT-FAIR Scheduling Framework in Linux
  Hang Su, Dakai Zhu, and Jiafeng Zhu

16:00-17:30   Session IUCC-6: Detection, Identification, and Recognition (Room: Suite 4)

Session Chair:

- Exploring Accuracy-Cost Tradeoff in In-Home Living Activity Recognition Based on Power Consumptions and User Positions
  Kenki Ueda, Hirohiko Suwa, Yutaka Arakawa, and Keiichi Yasumoto
- Bootstrapping Personalised Human Activity Recognition Models Using Online Active Learning
  Tudor Miu, Paolo Missier, and Thomas Plötz
- Temporal Recursive Pedestrian Trajectory Identification for Multi-camera Surveillance System
  Cong Shen, Rong Xie, and Liang Zhang
- DIVINE: Building a Wearable Device for Intelligent Control of Environment Using Google Glass
  Tamir Sobeih, Nick Whittaker, and Liangxiu Han
- COVER: A Cooperative Virtual Force Robot Deployment Technique
  Gamal Sallam and Uthman Baroudi
- ECG Security Identification System on the Zynq SoC Platform
  Xiaojun Zhai, Abbes Amira, and Faycal Bensaali

MultiCom-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

13:30-15:30   Session MultiCom: Multimedia Communications and Networking (Room: Suite 8)

Session Chair:

- Hybrid Clustered Peer-Assisted DASH-SVC System

Ran Dubin, Ofer Hadar, Yariv Freifeld, Aviv Ruham, Amit Dvir, Nissim Harel, and Refael Barkan
- Video Quality in 5G Networks: Context-Aware QoE Management in the SDN Control Plane
  Olatunde Awobuluyi, James Nightingale, Qi Wang, and Jose M. Alcaraz-Calero
- Client QoE-Oriented Segment Selection for DASH
  Mirghiasaldin Seyedebrahimi, Colin Bailey, and Xiao-Hong Peng
- Anomalous Region Detection on the Mobility Data
  Huan Huo, Shangye Chen, Liang Song, Leiyu Ban, Zonghan Wu, Liang Liu, and Liping Gao
- Block-Based Feature Adaptive Compressive Sensing for Video
  Xin Ding, Wei Chen, and Ian Wassell

VEAI-2015 TECHNICAL SESSIONS
28 October 2015 Wednesday

9:00-11:00   Session VEAI: Virtual Environments and Advanced Interfaces (Room: Suite 4)

Session Chair:

- Separating Gesture Detection and Application Control Concerns with a Multimodal Architecture
  Leonel Morgado, Bernardo Cardoso, Fausto de Carvalho, Luís Fernandes, Hugo Paredes, Luís Barbosa, Benjamim Fonseca, Paulo Martins, and Ricardo Rodrigues Nunes
- The Potential of the Brain-Computer Interface for Learning: A Technology Review
  Leo Galway, Paul McCullagh, Gaye Lightbody, Chris Brennan, and David Trainor
- Simulating Nature for Elderly Users - A Design Approach for Recreational Virtual Environments
  Jon Ram Bruun-Pedersen, Stefania Serafin, and Lise Busk Kofoed
- Playing Immersive Games on the REVERIE Platform
  Ioannis Doumanis, Julie Wall, and David S. Monaghan
- Hardware Interfaces for VR Applications: Evaluation on Prototypes
  Markos Mentzelopoulos, Filippo Tarpini, Agazio Emanuele, and Aristidis Protopsaltis
- The REVERIE Human Representation Addresses Issues Related to Virtual Presence, Communication, and Interaction in Collaborative Virtual Environments
  Ioannis Doumanis, Daphne Economou, and Nektarios Georgalas
- Lessons from Digital Puppetry: Updating a Design Framework for a Perceptual User Interface
  Jeffrey Ferguson

BigData-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

16:00-18:30   Session BigData: Big Data and Smart Sustainable Society (Room: Suite 8)

Session Chair:

- Towards a Semantic Layer to Support Road and Public Transport User Decision-Making
  Nicholas Gould and David Atkin
- Development of an Integrated Agent for Greener Airport Operations
  Zhexing Yan and Mahroo Eftekhari
- Big Data Computation for Workshop-Based Planning Support
  Jianguang Tu, Jianquan Cheng, and Liangxiu Han
- Implementation of the Big Data Management System for Demand Side Energy Management
  Jungin Choi, Mijeom Kim, and Jaeweon Yoon
- POPmine: Tracking Political Opinion on the Web
  Pedro Saleiro, Sílvio Amir, Mário Silva, and Carlos Soares
- Nudge Better Quantified-Self with Context-Aware and Proactive Services

Li Guo

- Towards a Heterogeneous Compute Engine for Software Acceleration on Big Data Infrastructures
Christos Margiolas and Ioannis Manousakis
- Towards Free Market Cloud Computing
Jeremy Singer, Abyd Adhami, and Colin Perkins

HWNQoE-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

16:00-18:00   Session HWNQoE: Heterogeneous Wireless Networks and Quality-of-Experience (Room: Suite 9)

Session Chair:

- Content-Based Video Quality Prediction Using Random Neural Networks for Video Streaming over LTE Networks
Tarik Ghalut, Hadi Larijani, and Ali Shahrabi
- OpenFlow 1.3 Extension for OMNeT++
Mukhald A. Salih, John Cosmas, and Yue Zhang
- Medium Access Control Protocol to Address Hidden Terminals in MU-MIMO WLANs
Sanjeeb Shrestha, Gengfa Fang, Eryk Dutkiewicz, and Xiaojing Huang
- Hata Path Loss Model Tuning for Cellular Networks in Irbid City
Omar Banimelhem, Muneer. M. Al-Zu'bi, and Mohammad S. Al Salameh
- Human-Computer Interaction System for Communications and Control
Svetla Radeva and Dimitar Radev

IWSCA-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

10:30-12:30   Session IWSCA: Soft Computing and Applications (Room: Suite 4)

Session Chair:

- On Induced Soft Sets and Topology for the Parameter Set of a Soft Set
Zhicai Liu, Keyun Qin, Zheng Pei, and Jin Liu
- A Consensus Model for Multiple Criteria Group Decision Making under Linguistic Environment
Fen Zou, Liangzhong Yi, Zheng Pei, and Jing Liu
- Entropy on Interval-Valued Intuitionistic Fuzzy Soft Set
Yaya Liu and Keyun Qin
- The Rough Set Model Based on Grade Indiscernibility Relation
Junfang Luo and Keyun Qin

IoT-Smart-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

10:30-12:30   Session IoT-Smart: Internet of Things and Smart Spaces (Room: Suite 7)

Session Chair:

- Survey on Clean Slate Cellular-IoT Standard Proposals
Wael Guibene, Keith E. Nolan, and Mark Y. Kelly
- Performance Evaluation of the RPL Protocol in Fixed and Mobile Sink Low-Power and Lossy-Networks
Isam Wadhaj, Istvan Kristof, Imed Romdhani, and Ahmed Al-Dubai
- Performance Evaluation of RPL Objective Functions

Mamoun Qasem, Hussien Altawssi, Muneer Bani Yassien, and Ahmed Al-Dubai
- Empirical Experiments for Sensors' Distance Estimation in Smart Places
  Nadhir Ben Halima, Yaser Khamayseh, Wail Mardini, and Abedl Rahman Almodawar
- Level Crossing Rate of Ratio of Product of Two k-u Random Variables and Nakagami-m Random Variable
  Dragana Krstie, Imed Romdhani, Muneer Masadeh Bani Yassein, Siniša Minić, Goran Petković, and Predrag Milačić

ICTA–2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

13:30-15:30   Session ICTA: Innovative Computational Technologies and Its Applications (Room: Suite 9)

Session Chair:

- Estimation of Physical Activity Walking in Different Slopes Based on Accelerometer Approach
  Kai He, Jing-Xian Yao, and Hsien-Tsung Chang
- Energy-Efficient Multimedia Multicast Scheduling and Resource Allocation Algorithms for OFDMA-Based Systems
  Shih-Lin Wu and Wei-Wen Wang
- Efficient Strategies of Compressing Three-Dimensional Sparse Arrays Based on Intel XEON and Intel XEON Phi Environments
  Chun-Yuan Lin, Huang Ting Yen, and Che-Lun Hung
- Trusted Platform Based Linux File Access Control
  Guang-liang Guo and Quan Qian
- Efficient Brain MRI Segmentation Algorithm on TK1
  Che-Lun Hung, Chun-Yuan Lin, Yuan-Huai Wu, Hsiao-Hsi Wang, and Yu-Chen Hu
- Voice Helper: A Mobile Assistive System for Visually Impaired Persons
  Kuei-Chun Liu, Ching-Hung Wu, Shau-Yin Tseng, and Yin-Te Tsai

MT4H–2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

10:30-12:30   Session MT4H: Mobile Technology for Healthcare (Room: Suite 5)

Session Chair: Prof. Ella Pereira, Edge Hill University, UK

- Walk and Jog Characterization Using a Triaxial Accelerometer
  Jose David López, Angela Sucerquia, Leonardo Duque-Muñoz, and Francisco Vargas-Bonilla
- Activity Tracker and Elderly
  Peter Rasche, Matthias Wille, Sabine Theis, Katharina Schäefer, Christopher M. Schlick, and Alexander Mertens
- Introducing Digital Wellness: Bringing Cyberpsychological Balance to Healthcare and Information Technology
  Ciarán McMahon and Mary Aiken
- Clustering of Physical Activities for Quantified Self and mHealth Applications
  Chelsea Dobbins and Reza Rawassizadeh

AUCN–2015 TECHNICAL SESSIONS
26 October 2015 Monday

16:00-18:00   Session AUCN-1: Advances in Ubiquitous Computing and Networking (I) (Room: Suite 7)

Session Chair:

- Travel Time Prediction on Highways
  Jan Rupnik, John Davies, Blaž Fortuna, Alistair Duke, and Sandra Stincic Clarke
- A Combined Smartphone and Smartwatch Fall Detection System
  Thomas Vilarinho, Babak Farshchian, Daniel Gloppestad Bajer, Ole Halvor Dahl, Iver Egge, Sondre Steinsland Hegdal, Andreas Lønes, Johan N. Slettevold, and Sam Mathias Weggersen Uthman Baroudi and Mohammed Aldarwbi
- Inspired Counter Based Broadcasting for Dynamic Source Routing in Mobile Networks
  Muneer Bani Yassein and Ahmed Y. Al-Dubai
- Towards a Holistic Multi-cloud Brokerage System: Taxonomy, Survey, and Future Directions
  Bandar Aldawsari, Thar Baker, and David England
- C2@home - A Novel User-Side Cloud-of-Clouds Management Architecture
  Antonella *Di* Stefano, Giovanni Morana, and Daniele Zito

27 October 2015 Tuesday

13:30-15:30   Session AUCN-2: Advances in Ubiquitous Computing and Networking (II) (Room: Suite 1)

Session Chair:

- Towards a Mobile Assistive Technology for Monitoring and Assessing Cognitive Fatigue in Individuals with Acquired Brain Injury
  Edward Price, George Moore, Leo Galway, and Mark Linden
- Probabilistic Estimation of Resource Affinities of Processes in Computing Systems
  Susmit Bagchi
- CoRFL: A Connectivity Restoration Mechanism Using Fuzzy Logic in Wireless Actor and Sensor Networks
- Development of ZigBee Triaxial Accelerometer based Human Activity Recognition System
  S Irene, N M Shweta, P Haribabu, R Pitchiah

Part III: TECHNICAL SESSIONS OF DASC-2015 and Associated Workshops/Symposia

DASC-2015 TECHNICAL SESSIONS
26 October 2015 Monday

11:00-12:30   Session DASC-1: Autonomic Computing Theory, Models, Architectures, and Communications (Room: Suite 5)

Session Chair:

- Simulation Environment Based on SystemC and VEOS for Multi-core Processors with Virtual AUTOSAR ECUs
  Moisés Urbina, Zaher Owda, and Roman Obermaisser
- Evaluation and Prevention of MAC Layer Misbehaviours in Public Wireless Hotspots
  Chaminda Alocious, Hannan Xiao, Bruce Christianson, and James Malcolm
- Enterprise Data Center Globality Measurement
  Ruairí de Fréin, Joel Pfaff, and Thomas Paré
- Towards Efficient Dissemination and Filtering of XML Data Streams

Kirill Belyaev and Indrakshi Ray
- CCTV as a Smart Sensor *Network*
  Giles Oatley, Tom Crick, and Dee Bolt

13:30-15:30 Session DASC-2: Self-Protection and Intrusion-Detection (Room: Suite 5)
Session Chair:

- Distributed Black Virus Decontamination and Rooted Acyclic Orientations
  Jie Cai, Paola Flocchini, and Nicola Santoro
- Towards Automated Generation and Visualization of Hierarchical Attack Representation Models
  Fangcheng Jia, Jin B. Hong, and Dong Seong Kim
- Efficient Discovery of Malicious Symptoms in Clouds via Monitoring Virtual Machines
  Sultan S. Alshamrani, Dariusz R. Kowalski, and Leszek A. Gąsieniec
- Efficient Event Detection in Social Media Data Streams
  Xiang Sun, Yan Wu, Lu Liu, and John Panneerselvam
- A New Prime and Probe Cache Side-Channel Attack for Cloud Computing
  Younis A. Younis, Kashif Kifayat, Qi Shi, and Bob Askwith
- Evolutionary Virus Immune Strategy Based on Community Vitality
  Cai Fu, Li Min, Jia Yang, Deliang Xu, Xiao-Yang Liu, and Lansheng Han
- CloudZombie: Launching and Detecting Slow-Read Distributed Denial of Service Attacks from the Cloud
  Saeed Shafieian, Mohammad Zulkernine, and Anwar Haque
- Detection and Prevention of Malicious Requests in ICN Routing and Caching
  Eslam G. AbdAllah, Mohammad Zulkernine, and Hossam S. Hassanein
- The Trustworthy Autonomic Interface Guardian Architecture for Cyber-Physical Systems
  Kevin G. Lyn, Lee W. Lerner, Christopher J. McCarty, and Cameron D. Patterson

16:00-18:00 Session DASC-3: Information and System Security & Trust and Privacy (Room: Suite 5)
Session Chair:

- A Cyber Security Ontology for BPMN-Security Extensions
  Curtis L. Maines, David Llewellyn-Jones, Stephen Tang, and Bo Zhou
- Protecting Future Personal Computing: Challenging Traditional Network Security Models
  Helen Angela Brumfitt, Bob Askwith, and Bo Zhou
- A Safety Concept for a Railway Mixed-Criticality Embedded System Based on Multicore Partitioning
  Irune Agirre, Mikel Azkarate-Askasua, Asier Larrucea, Jon Perez, Tullio Vardanega, and Francisco J. Cazorla
- A Modular Safety Case for an IEC 61508 Compliant Generic COTS Processor
  Asier Larrucea, Jon Perez, and Roman Obermaisser
- Digital Memories Based Mobile User Authentication for IoT
  Nathan Shone, Chelsea Dobbins, William Hurst, and Qi Shi
- ShutterRoller: Preserving Social Network Privacy towards High-Speed Domain Gateway
  Borui Yang, Jianxin Li, Lu Liu, Yingjie Cao, Hua Wei, Peiyuan Sun, Nannan Wu, and Bo Li
- Identity-Based Association Protocols for Wireless Personal Area Networks
  Xin Huang, Paul Craig, and Qinghua Wang
- Representation of Trust and Reputation in Self-Managed Computing Systems
  Jan Kantert, Sarah Edenhofer, Sven Tomforde, and Christian Müller-Schloer

27 October 2015 Tuesday

13:30-15:30 Session DASC-4: QoS of Communications and Services (Room: Suite 5)

Session Chair:

- Take Off a Load: Load-Adjusted Video Quality Prediction and Measurement
  Ruairí de Fréin
- Correlation-Based Top-k Recommendation for Web Services
  Qi Xie, Zibin Zheng, Lu Liu, and Mengtian Cui
- The Impact of Hypervisor Scheduling on Compromising Virtualized Environments
  Tsvetoslava Vateva-Gurova, Neeraj Suri, and Avi Mendelson
- Incremental, Distributed, and Concurrent Scheduling in Systems-of-Systems with Real-Time Requirements
  Roman Obermaisser and Ayman Murshed
- Diverse Compiling for Microprocessor Fault Detection in Temporal Redundant Systems
  Andrea Höller, Tobias Rauter, Johannes Iber, and Christian Kreiner
- Calligraphy Imitation System Based on Virtual Brush and Scale-Invariant Feature Transform
  Zhu Li, Li Jun, Hu Tao, and Xiang Jun
- Preserving Source-Location Privacy through Redundant Fog Loop for Wireless Sensor Networks
  Mianxiong Dong, Kaoru Ota, and Anfeng Liu

IBDS-2015 TECHNICAL SESSIONS
26 October 2015 Monday

11:00-12:30   Session IBDS: Intelligent Big Data Systems (Room: Suite 9)

Session Chair:

- Computational Objectivity in Depression Assessment for Unstructured Large Datasets
  Aaron Johnson, Paul Holmes, Lewis Craske, Marcello Trovati, Nik Bessis, and Peter Larcombe
- Investigation of Energy Efficiency on Cloud Computing
  Nathan Whittington, Lu Liu, Bo Yuan, and Marcello Trovati
- A Semi-automated Assessment of the Direction of Influence Relations from Semantic Networks: A Case Study in Maths Anxiety
  Marcello Trovati, Jayne Trovati, Peter Larcombe, and Lu Liu
- Reducing Vehicular Traffic Congestion Using Available Forward Road Capacity Detection
  James Hardy and Lu Liu

CEWE-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

16:00-18:00   Session CEWE: Cybercrimes and Emerging Web Environments (Room: Suite 7)

Session Chair:

- Counterfeiting and Defending the Digital Forensic Process
  Álvaro Botas, Ricardo J. Rodríguez, Teemu Väisänen, and Patrycjusz Zdzichowski
- Mitigating Circumstances in Cybercrime: A Position Paper
  Raian Ali, John McAlaney, Shamal Faily, Keith Phalp, and Vasilios Katos
- MP-Shield: A Framework for Phishing Detection in Mobile Devices
  Giovanni Bottazzi, Emiliano Casalicchio, Davide Cingolani, Fabio Marturana, and Marco Piu
- The Evidentiary Value of Link Files in Linux File System to Digital Forensic Investigation
  Tharmini Janarthanan and Shahrzad Zargari
- Fast Mining of Large-Scale Logs for Botnet Detection: A Field Study
  Giovanni Bottazzi and Giuseppe Francesco Italiano

16:00-18:00   Session SocialSec: Social Computing and Security (Room: Suite 7)

Session Chair:

- A Fragment Classification Method Depending on Data Type
  Ning Zheng, Jinlong Wang, Ting Wu, and Ming Xu
- Don't Speak to Strangers: The Suspicious Strategy Can Help to Improve Cooperation in Spatial Donation Game
  Hong Ding, Junyao Huang, Yuangfang Chen, and Yizhi Ren
- A Secure Authentication Scheme for Session Initiation Protocol Based on Elliptic Curve Cryptography
  Shehzad Ashraf Chaudhry, Khalid Mahmood, Husnain Naqvi, and Muhammad Sher

ASCC-2015 TECHNICAL SESSIONS
26 October 2015 Monday

16:00-18:00   Session ASCC-1: Advances in Autonomic and Secure Computing and Communications (Room: Suite 8)

Session Chair:

- A Mobile Phone Device as a Biometrics Authentication Method for an ATM Terminal
  Nabeel Ali Albahbooh and Patrick Bours
- Function and Performance of Testing: Towards a Systemic View
  Krzysztof M. Brzeziński
- Autonomic Management Using Self-Stabilization for Hierarchical and Distributed Middleware
  Maurice Djibril Faye, Eddy Caron, and Ousmane Thiaré
- Fuzzy Inference Based Intrusion Detection System: FI-Snort
  Nitin Naik
- Zero-Carbon Cloud: A Volatile Resource for High-Performance Computing
  Andrew A. Chien, Rich Wolski, and Fan Yang

16:00-18:00   Session ASCC-2: Sustainable High Performance Computing (Room: Suite 9)

Session Chair:

- Use HDLC Principles for Distributed Applications
  Justin Y. Shi
- AnkaCom: A Development and Experiment for Extreme Scale Computing
  Yasin Celik, Aakash Pradeep, and Justin Y. Shi

Part IV: TECHNICAL SESSIONS OF PICom-2015 and Associated
Workshops/Symposia

PICom-2015 TECHNICAL SESSIONS
26 October 2015 Monday

11:00-12:30   Session PICom-1: Ubiquitous Intelligence & Cyber-Physical Computing (Room: Suite 8)

Session Chair:

- Crowd Steering in Public Spaces: Approaches and Strategies

Andrea Sassi, Claudio Borean, Roberta Giannantonio, Marco Mamei, Dario Mana, and Franco Zambonelli

- Performance Evaluation of Cyber-Physical Intrusion Detection on a Robotic Vehicle
  Tuan Phan Vuong, George Loukas, and Diane Gan
- A Smartphone-Based System for Personal Data Management and Personality Analysis
  Ao Guo and Jianhua Ma
- A Novel Image Quality Assessment Method Based on Vision Attention
  Zehua Lan, Yu Li, and Xingang Liu
- Coalition Based Bandwidth Allocation in Mobile Social Networks
  Bo Fan, Supeng Leng, Kun Yang, and Geyong Min
- A Secure Cooperative Spectrum Sensing Strategy for Distributed Cognitive Radio Networks
  Hui Lin, Jia Hu, Chuan Huang, and Li Xu

13:30-15:30   Session PICom-2: Artificial Intelligence & Knowledge Computing (Room: Suite 8)
Session Chair:

- A Rule-Based Ontology Reasoning System for Context-Aware Building Energy Management
  Jinsoo Han, Youn-Kwae Jeong, and Ilwoo Lee
- A Convolutional Neural Network for Leaves Recognition Using Data Augmentation
  Chaoyun Zhang, Pan Zhou, Chenghua Li, and Lijun Liu
- Neural Networks Based Formation Control of Anti-ship Missiles with Constant Velocity
  Yuan Wang, Yongkun Wang, Mingwei Sun, Shengzhi Du, and Zengqiang Chen
- Interactive Display Services for Smart Environments
  Jens Naber, Dominik Schäfer, Sebastian VanSyckel, and Christian Becker
- Prevent Cooking Risks in Kitchen of Elderly People: Adaptable Reasoning Engine Based on Fuzzy Logic for Smart Oven
  Bessam Abdulrazak and Rami Yared
- Parameter Optimisation for Location Extraction and Prediction Applications
  Alasdair Thomason, Nathan Griffiths, and Victor Sanchez
- Unified Structure and Data Driven Process for Knowledge Enrichment and Problem Solving
  Atsushi Sato and Runhe Huang
- Backhaul Aggregation for Smart Homes in Heterogeneous Wireless Networks
  Muhammad Asad Khan, Supeng Leng, Xiaoyan Huang, Jiechen Yin, and Bo Fan

27 October 2015 Tuesday

16:00-17:30   Session PICom-3: High Performance Computing (Room: Suite 5)
Session Chair:

- Design and Verification of Heterogeneous Streaming Parallel Mechanisms on Kepler CUDA
  Kailong Zhang, Shaoli Zhou, Liang Hu, Hang Su, Xiao Wu, and Kejian Miao
- The Robustness of Face-Based CAPTCHAs
  Haichang Gao, Lei Lei, Xin Zhou, Jiawei Li, and Xiyang Liu
- PSO Based Multiobjective Reliable Optimization Model for Cloud Storage
  Xiyang Liu, Lei Fan, Liming Wang, and Sha Meng
- Community Detection Algorithm Based on the Scale Free Property of Networks
  Xiyang Liu, Qiong Pan, Yingying An, and Guimin Qin
- An Efficient Method for Document Categorization Based on Word2vec and Latent Semantic Analysis
  Ronghui Ju, Pan Zhou, Cheng Hua Li, and Lijun Liu
- Water Quality Modeling for Pipeline Network Peripherals Based on Simulation of Water Age

Ji Yang, Yong Li, Nan Feng Zhang, Jing Feng Yang, Jian Tang, and Yong Xian Su

16:00-18:00 Session PICom-4: Intelligent Social Networking (Room: Suite 1)

Session Chair:

- ShakeMe: Key Generation from Shared Motion
  Hidir Yüzugüzel, Jari Niemi, Serkan Kiranyaz, Moncef Gabbouj, and Thomas Heinz
- Context-Aware Service Discovery and Selection in Decentralized Environments
  Mariwan Ahmed, Lu Liu, Bo Yuan, Marcello Trovati, and James Hardy
- Pervasive Information Visualization: Toward an Information Visualization Design Methodology for Multi-device Co-located Synchronous Collaboration
  Paul Craig, Xin Huang, Huayue Chen, Xi Wang, and Shiyao Zhang
- The Mobile Tree Browser: A Space Filling Information Visualization for Browsing Labelled Hierarchies on Mobile Devices
  Paul Craig and Xin Huang

IoTBDH-2015 TECHNICAL SESSIONS
27 October 2015 Tuesday

13:30-15:30 Session IoTBDH-1: Internet of Things and Big Data for Healthcare (I) (Room: Suite 7)

Session Chair:

- Prediction and Guidance of Behaviour: A Web-Based Multipurpose Behaviour Intervention Investigation Methodology
  Yang Fu and Wenyan Wu
- Smart Health Monitoring Using the Advance Metering Infrastructure
  Carl Chalmers, William Hurst, Michael Mackay, and Paul Fergus
- A Prostate Cancer Care Process Example of Using Data from Internet of Things
  Emmanuel Eyo Effiok, Enjie Liu, Hong Qing Yu, and Jon Hitchcock
- Improving the Validity of Lifelogging Physical Activity Measures in an Internet of Things Environment
  Po Yang, Martin Hanneghan, Jun Qi, Zhikun Deng, Feng Dong, and Dina Fan
- Life-Logging Data Aggregation Solution for Interdisciplinary Healthcare Research and Collaboration
  Zhikun Deng, Po Yang, Youbing Zhao, Xia Zhao, and Feng Dong
- Improving Reliability of Message Broadcast over Internet of Vehicles (IoVs)
  Elias Eze C., Sijing Zhang, and Enjie Liu
- Investigating Big Data Healthcare Security Issues with Raspberry Pi
  Xiaohua Feng, Babatunde Onafeso, and Enjie Liu
- MyHealthAvatar: A Case Study of Web-Based Interactive Visual Analytics of Lifestyle Data
  Farzad Parvinzamir, Youbing Zhao, Zhikun Deng, Xia Zhao, Nikolaos Ersotelos, Feng Dong, Enjie Liu, and Gordon Clapworthy

10:30-12:30 Session IoTBDH-2: Internet of Things and Big Data for Healthcare (II) (Room: Suite 7)

Session Chair:

- BPMN Security Extensions for Healthcare Process
  Koh Song Sang and Bo Zhou
- Cognitive Radio Aided Internet of Vehicles (IoVs) for Improved Spectrum Resource Allocation
  Joy Eze, Sijing Zhang, Enjie Liu, Elias E. Chinedum, and Hong Q. Yu
- A Survey of Physical Activity Monitoring and Assessment Using Internet of Things Technology
  Jun Qi, Po Yang, Dina Fan, and Zhikun Deng

9:00-11:00   Session PCIS: Pervasive Computing and Intelligence Systems (Room: Suite 5)

Session Chair:

- Sentiment Analysis Using Convolutional Neural Network
  Xi Ouyang, Pan Zhou, Cheng Hua Li, and Lijun Liu
- Recognition of Dynamic Data Structures to Support Porting of Applications to the Cloud
  Beniamino Di Martino and Antonio Esposito
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