

PROGRAM GUIDE



IMIS-2015

The 9-th International Conference on
Innovative Mobile and Internet Services in Ubiquitous Computing

July 8th - July 10th, 2015 Regional University of Blumenau (FURB),

Blumenau, Brazil

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IMIS-2015 Conference Organizing Committee**Honorary Co-Chairs**

Joao Natel Pollonio Machado, *FURB, Brazil*

Makoto Takizawa, *Hosei University, Japan*

General Co-Chairs

Leonard Barolli, *Fukuoka Institute of Technology, Japan*

Ilsun You, *Korean Bible University, Korea*

Program Committee Co-Chairs

Francesco Palmieri, *Second University of Naples, Italy*

Helio Dos Santos Silva, *FURB, Brazil*

Hsing-Chung Chen, *Asia University, Taiwan*

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Antonio J. Jara, *University of Applied Sciences Western Switzerland, Switzerland*

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Makoto Ikeda, *Fukuoka Institute of Technology (FIT), Japan*

Web Administrator

Tetsuya Oda, *Fukuoka Institute of Technology, Japan*

Welcome Message from the IMIS 2015 General Co-Chairs

Welcome to the 9-th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2015), which will be held from July 8-th to July 10-th, 2015, at Regional University of Blumenau (FURB), Blumenau, Brazil in conjunction with the 9-th International Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2015).

This International Conference focuses on the challenges and solutions for Ubiquitous and Pervasive Computing (UPC) with an emphasis on innovative, mobile and internet services. With the proliferation of wireless technologies and electronic devices, there is a fast growing interest in UPC. UPC enables to create a human-oriented computing environment where computer chips are embedded in everyday objects and interact with physical world. Through UPC, people can get online even while moving around, thus having almost permanent access to their preferred services. With a great potential to revolutionize our lives, UPC also poses new research challenges. The conference provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of UPC.

For IMIS 2015, we received many paper submissions from all over the world. The papers included in the proceedings cover important aspects from UPC research domain. This year, we received 157 submissions and after a careful review process of 3 independent reviews per submission, 38 papers were accepted (about 24% acceptance rate).

It is impossible to organize such a successful program without the help of many individuals. We would like to express our great appreciation to the authors of the submitted papers, the program committee members, who provided timely and significant reviews, and special session chairs for their great efforts. We are grateful to Honorary Co-Chairs Prof. Makoto Takizawa, Hosei University, Japan and Prof. Joao Natel Pollonio Machado, FURB, Brazil for their advices and support. We would like to thank Dr. Francesco Palmieri, Second University of Naples, Italy, Prof. Helio Dos Santos Silva, FURB, Brazil and Dr. Hsing-Chung Chen, Asia University, Taiwan as PC Co-Chairs of IMIS 2015 for their timely work.

This year in conjunction with IMIS 2015 we have 7 International Workshops that complemented IMIS 2015 program with contributions for specific topics. We would like to thank the Workshop Co-Chairs Dr. Hae-Duck Joshua Jeong, Korean Bible University, Korea and Dr. Antonio J. Jara, University of Applied Sciences Western Switzerland, Switzerland, and all workshop organizers for organizing these workshops.

We thank Dr. Makoto Ikeda and Mr. Tetsuya Oda, Fukuoka Institute of Technology, Japan for their excellent work and support as Web Administrators.

Finally, we would like to thank the members of the Local Arrangement Team of FURB for their support and good local arrangement for the conference.

We hope that all of you enjoy IMIS 2015 and find this a productive opportunity to learn, exchange ideas and make new contacts.

IMIS 2015 General Co-Chairs

Leonard Barolli, *Fukuoka Institute of Technology (FIT), Japan*

Ilsun You, *Korean Bible University (KBU), Korea*

Welcome Message from IMIS 2015 Program Committee Co-Chairs

As PC Co-Chairs, we would like to welcome you to the 9-th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2015), which will be held from July 8-th to July 10-th, 2015, at Regional University of Blumenau (FURB), Blumenau, Brazil in conjunction with the 9-th International Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2015).

This is the 9-th edition of the IMIS International Conference, which is growing every year in quality and quantity. The goal of the conference is to bring together researchers from the different fields related to Ubiquitous and Pervasive Computing (UPC). The IMIS 2015 International Conference is organized in 12 research tracks, which address and cover each main theme of UPC with a specific set of research topics. The program for this conference is the result of hard and excellent work of many people, including authors, external reviewers, program committee members, track chairs, and conference officers. This year, we have selected 38 quality contributions among 157 papers received (about 24% acceptance rate). We believe that all of the papers selected not only provide novel ideas, new results, work in progress, and state-of-the-art techniques in this field, but also stimulate future research activities in the area of UPC.

As PC Co-Chairs, we would like to thank the many people that helped and worked hard to produce a successful IMIS 2015 event this year. We would like to express our sincere appreciation to all of them for their cooperation. Firstly, we would like to thank IMIS 2015 General Co-Chairs Prof. Leonard Barolli, Fukuoka Institute of Technology, Japan and Dr. Ilsun You, Korean Bible University, Korea for bringing together this important event. We are grateful to Honorary Chairs Prof. Makoto Takizawa, Hosei University, Japan and Prof. Joao Natel Pollonio Machado, FURB, Brazil for their advices and support. We would like to give special thanks to all Track Co-Chairs for their time, energy, and expertise to make IMIS 2015 very successful. Also, we thank the Program Committee Members and Reviewers for their hard work and valuable comments that improved the quality of the presented papers. We would like to give special thanks to Dr. Makoto Ikeda and Mr. Tetsuya Oda, Fukuoka Institute of Technology, Japan for their excellent work as Web Administrators. Finally, we would like to thank the Local Arrangement Team of FURB for their support and good local arrangement for the conference.

We hope you will enjoy the conference and hope to see you in forthcoming editions.

IMIS 2015 Program Committee Co-Chairs

Francesco Palmieri, Second University of Naples, Italy

Helio Dos Santos Silva, FURB, Brazil

Hsing-Chung Chen, Asia University, Taiwan

Welcome Message from IMIS 2015 Workshops Co-Chairs

Welcome to the Workshops of the 9-th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2015), which will be held from July 8-th to July 10-th, 2015, at Regional University of Blumenau (FURB), Blumenau, Brazil in conjunction with the 9-th International Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2015).

This year we have 7 workshops, which will be held together with IMIS 2015. The objective was to complement as much as possible the main themes of IMIS 2015 with the specific topics of the different workshops to cover many topics of Ubiquitous and Pervasive Computing (UPC). The list of workshops follows below:

1. The 9-th International Workshop on Advances in Information Security (WAIS 2015)
2. The 5-th International Workshop on Mobile Commerce, Cloud Computing, Network and Communication Security (MCNCS 2015)
3. The 5-th International Workshop on Intelligent Techniques and Algorithms for Ubiquitous Computing (ITAUC 2015)
4. The 4-th International Workshop on Sustainability Management of e-Business and Ubiquitous Commerce Engineering (SMEUCE 2015)
5. The 4-th International Workshop on Extending Seamlessly to the Internet of Things (esIoT 2015)
6. The 3-rd International Workshop on Practical Security Issues in Public Internet Services (PISPIS 2015)
7. The 1-st International Workshop on Big Data and IoT Security (BDITS 2015)

We would like to thank IMIS 2015 International Conference Organizers for their help and support. We are grateful to the workshop organizers for their great efforts and hard work in proposing the workshops, selecting the papers, organizing interesting programs, and for the arrangements of the workshops during the conference days.

We are grateful to Dr. Makoto Ikeda and Mr. Tetsuya Oda, Fukuoka Institute of Technology, Japan for their excellent work and support as Web Administrators. We would also like to give special thanks to the Local Organization Team of FURB, Blumenau, Brazil

We hope you enjoy the workshops programs and proceedings.

Workshops Co-Chairs of IMIS 2015 International Conference

Hae-Duck Joshua Jeong, *Korean Bible University, Korea*

Antonio J. Jara, *University of Applied Sciences Western Switzerland, Switzerland*

IMIS-2015 Keynote I



Dr. Olivier Terzo, ISMB Research Center, Italy

Low Power Solutions: Autonomous Collaborative Low Power Computing Systems

Abstract: This talk presents an overview of low power collaborative computing solutions for small scalable mini datacenter. Smart systems and infrastructure are a key challenge for delivering innovation in reliable low power computing systems. Needs of autonomous and adaptive solutions will guarantee challenges on having optimization on energy and computing efficiency.

This talk reports on applied research on the field of Low Power computing solutions in critical context as for example Polar Regions where necessity is on using Low Power computing systems and innovative low power radio-communication capabilities due to low energy constraints.

IMIS-2015 Keynote II



Prof. Tomoya Enokido, Risho University, Japan

Green Computing: Issues, Algorithms and Solutions

Abstract: In order to realize scalable, high performance and fault-tolerant distributed applications various types of computing systems like Cloud Computing, Peer-to-Peer (P2P) and Grid Computing systems are developed. For these systems, server cluster systems are widely used to provide applications with scalable, high performance and fault-tolerant services. A server cluster system is composed of a large number of servers where application processes are performed on multiple servers. Application services can be provided by balancing processing load among servers to perform application processes. But, a large amount of electric energy is consumed in a server cluster system since multiple servers consume electric energy to perform application processes. Hence, it is critical to discuss not only the realization of scalable, high performance and fault-tolerant application services, but also the energy-efficient server cluster systems in order to decrease the energy spending which leads to Green Computing.

In this talk, first I will introduce some issues on Green Computing and energy-saving systems. Then based on experimental results, I will present server computation models and power consumption models to perform different types of application processes. After that, I will present the load balancing algorithms to select a server for each type of request process so that the total energy consumption of a server cluster and response time of each process can be reduced. Finally, I will conclude the talk with some lessons learned and will discuss challenges of Green Computing.



IMIS-2015

Main Conference and Workshops Program

Wednesday, July 8, 2015

08:00 Registration

Registration will be taken a place near by plenary room in the morning.
Registration will be taken a place near by session rooms in the afternoon.

09:00-09:30 Single Session: Opening Ceremony

09:30-10:30 Single Session: IMIS-2015 Keynote I

IMIS-2015 Keynote Talk I (PLENARY ROOM)

Dr. Olivier Terzo: Low Power Solutions: Autonomous Collaborative Low Power Computing Systems

10:30-11:00 Coffee Break**11:00-13:00 Parallel Sessions****IMIS-S1: MANETs and VANETs - Room 2****Chair: Noriki Uchida, Fukuoka Institute of Technology, Japan**

1. Performance Evaluation of Reactive Routing Protocols for VANETs in Urban Scenarios Following Good Simulation Practices
J.M. García-Campos, D. G. Reina, S. L. Toral, N. Bessis, F. Barrero, E. Asimakopoulou, R. Hill
2. Experimental Results of a CentOS-based Ad-Hoc Network Testbed Considering LoS Scenario
Tetsuya Oda, Yi Liu, Keita Matsuo, Shinji Sakamoto, Makoto Ikeda, Leonard Barolli
3. Performance Evaluation of AODV, OLSR and HWMP Protocols in Ad-Hoc Networks and MANET Scenarios
Keita Matsuo, Tetsuya Oda, Donald Elmazi, Shinji Sakamoto, Leonard Barolli
4. Performance Evaluation of a VANET Simulation System Using NS-3 and SUMO Considering Number of Vehicles and Crossroad Scenario
Vladi Kolici, Tetsuya Oda, Yuki Sugihara, Evjola Spaho, Makoto Ikeda, Leonard Barolli
5. IEEE802.11 based Vehicle-to-Vehicle Delay Tolerant Networks for Road Surveillance System in Local Areas
Noriki Uchida, Go Hirakawa, Tomoyuki Ishida, Yoshikazu Arai, Yoshitaka Shibata

IMIS-S2: Multimedia and Medical Applications - Room 3**Chair: Makoto Takizawa, Hosei University, Japan**

1. A Visual Analytics Approach for E-learning Education
Xuehui Zhang, Xin Liu
2. An Enhanced Java-based Mobile Device Theft Response System
Yongwoo Kwon, Inhyeok Jeon, WooSeok Hyun, Jiyoung Lim, Ilsun You, Hae-Duck J. Jeong
3. Evaluation of Power Consumption for Smart Devices in Web Applications
Ken Nishimura, Kaoru Sugita
4. Hybrid Recommendation Base on Learning to Rank
Xinhuai Tang, Feilong Tang
5. Mobile Application to Support Community Health Workers using GeneXus Smart Devices
Mauro Marcelo Mattos, Simone Erbs da Costa, Luciana Pereira de Araújo, Shaiane Mafra Casa, Eric Boeing
6. Monitoring Patients with Mental Disorders
Philip Moore, Andrew Thomas, Tarik Qassem, Nik Bessis, Bin Hu

PISPIS-S1: Security Issues in Public Internet Services - Room 4**Chair: Kangbin Yim, Soonchunhyang University, Korea**

1. Soliciting Unexpected Traffic Flows into VoLTE
Junyoung Park, Taeyoung Jung, Jaein Kim, Kangbin Yim
2. Precise Exposure Control for Efficient Eye Tracking
Junghoon Park, Taeyoung Jung, Kangbin Yim
3. The Behavior-Based Analysis Techniques for HTML5 Malicious features
SangHwan Oh, JongHun Jung, HwanKuk Kim

13:00-14:30 Lunch Break**14:30-16:30 Parallel Sessions****IMIS-S3: Wireless Sensor Networks - Room 2****Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Bio-Inspired Routing in Wireless Sensor Networks
Hamza Fahim, Nadeem Javaid, Zahoor Ali Khan, Umar Qasim, Shumaila Javed, Amir Hayat, Zafar Iqbal, Ghazanfar Rehman
2. Interference and Bandwidth Aware Depth Based Routing Protocols in Underwater WSNs
Hamza Fahim, Nadeem Javaid, Umar Qasim, Zahoor Ali Khan, Shumaila Javed, Amir Hayat, Zafar Iqbal, Ghazanfar Rehman
3. Multilevel Routing Protocol for Energy Optimization in Wireless Sensor Networks
Hamza Fahim, Nadeem Javaid, Zahoor Ali Khan, Umar Qasim, Shumaila Javed, Danish Mahmood, Zafar Iqbal
4. A Multi-node Renewable Algorithm Based on Charging Range in Large-scale Wireless Sensor Network
Wu Guowei, Chi Lin, Ying Li, Lin Yao, Ailun Chen

IMIS-S4: Network Protocols and Applications - Room 3**Chair: Hae-Duck Joshua Jeong, Korean Bible University, Korea**

1. Reliable Voice-Based Transactions over VoIP Communications
Giuseppe Cattaneo, Luigi Catuogno, Fabio Petagna, Gianluca Roscigno
2. An Adaptive Routing Protocol Based on Fixed Hubs for Opportunistic Networks
Hewerton Enes De Oliveira, João Paulo De Araujo, Tales Heimfarth, João Carlos Giacomini
3. Knowledge-Based Framework for the Virtual Communication of Public Art
Vincenzo Lombardo, Rossana Damiano, Antonio Lieto
4. Trustworthiness-Based Broadcast Protocols in Wireless Networks
Miyu Sugino, Shigenari Nakamura, Tomoya Enokido, Makoto Takizawa

PISPIS-S2: Privacy and Social Issues in Public Internet Services - Room 4**Chair: Kangbin Yim, Soonchunhyang University, Korea**

1. NTFS Directory Index Analysis for Computer Forensics
Gyu-Sang Cho
2. Simplified 3D Hologram Heart Activity Monitoring using a Smartphone
Tharoeun Thap, Yunyoung Nam, Hee-won Chung, Jinseok Lee
3. Analysis of Statistical Methods for Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series
Kwon Ha Yoon, Tharoeun Thap, Chang Won Jeong, Nam Ho Kim, Seung Noh, Yunyoung Nam
4. A Real-time Sleep Monitoring System with a Smartphone
Tae-yang Han, Se-Dong Min, Yunyoung Nam

16:30-17:00 Coffee Break**17:00-19:00 Parallel Sessions**

IMIS-S5: Location and Context-Aware Computing - Room 2**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Analysis of Node Placement in Wireless Mesh Networks Using Friedman Test: A Comparison Study for Tabu Search and Hill Climbing
Tetsuya Oda, Donald Elmazi, Algenti Lala, Vladi Kolic, Leonard Barolli, Fatos Xhafa
2. Proposal of the Digital Contents Management System utilizing the AR Technology
Tsubasa Ando, Tomoyuki Ishida, Noriki Uchida, Yoshitaka Shibata
3. Supporting First Responders Localization During Crisis Management
Massimo Ficco, Francesco Palmieri, Aniello Castiglione
4. Impact of Location of Road-side Units Considering Message Suppression Method for Vehicular-DTN
Makoto Ikeda, Seiichiro Ishikawa, Taiki Honda, Leonard Barolli

IMIS-S6: Intelligent Computing - Room 3**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Qualitative Evaluation of Full Body Movements with Gesture Description Language
Tomasz Hachaj, Marek R. Ogiela
2. Efficiency of Cognitive Information Systems Supporting Enterprise Management Tasks
Lidia Ogiela, Marek R. Ogiela
3. Friedman Test for Analysing WMNs: A Comparison Study for Genetic Algorithms and Simulated Annealing
Donald Elmazi, Tetsuya Oda, Shinji Sakamoto, Evjola Spaho, Leonard Barolli, Fatos Xhafa
4. Biometric Methods for Advanced Strategic Data Sharing Protocols
Marek R. Ogiela, Lidia Ogiela, Urszula Ogiela

MCNCS-S1: Security, Wireless Sensor network and E-Commerce - Room 4**Chair: Fang-Yie Leu, TungHai University, Taiwan**

1. An AP Selection with RSS Standard Deviation for Indoor Positioning in Wi-Fi
Fong-Mao Jhuang, Chi-Fu Hung, Chiu-Ching Tuan, Yi-Chao Wu, Fang-Yie Leu
2. Applying Web Crawlers to Develop a Sale Management System for Online Malls
Yu-Jen Chang, Fang-Yie Leu, Shih-Chieh Chen, Hei-Lam Wong
3. A Security Threats Measurement model for Reducing Cloud Computing Security Risk
Sen-Tarnng Lai
4. Constructing Military Smartphone Usage Criterion of Cloud-DEFSOP for Mobile Security
Tien-Sheng Lin, I -Long Lin, Fang-Yie Leu

19:00-22:00 Welcome Reception Party

Thursday, July 9, 2015

08:00 Registration

09:30-10:30 Single Session: IMIS-2015 Keynote II

IMIS-2015 Keynote Talk II

Prof. Tomoya Enokido: Green Computing: Issues, Algorithms and Solutions

10:30-11:00 Coffee Break

11:00-13:00 Parallel Sessions

IMIS-S7: Security, Trust and Privacy - Room 2

Chair: Luigi Catuogno, Università degli Studi di Salerno, Italy

1. Estimating Software System Reliability: An Architecture-Based Approach
Xiwen Wu, Linpeng Huang, Chen Li, Luxi Chen
2. Ensuring Application Integrity: A Survey on Techniques and Tools
Luigi Catuogno, Clemente Galdi
3. Secure Authentication for Structured Smart Grid System
Inshil Doh, Jiyoung Lim, Kijoon Chae
4. The Dark Side of the Interconnection: Security and Privacy in the Web of Things
Luigi Catuogno, Stefano Turchi
5. Compromising Ad-hoc Networks by Attacking Weakly Connected Dominating Set
Chi Lin, Guowei Wu, Kangbin Yim, Lin Yao, Gang Hou
6. Vulnerability Analysis on the CNG Crypto Library
Kyungroul Lee, Ilsun You, Kangbin Yim

IMIS-S8: Cloud Computing and P2P - Room 3

Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan

1. Towards Energy Efficient Scheduling for Online Tasks in Cloud Data Centers based on DVFS
Weicheng Huai, Wei Huang, Shi Jin, Zhuzhong Qian
2. Multi-tenants Data Duplication Secure Storage in SaaS
Lin Li, Yilei Wang, Yanhui Ding, Yongxin Zhang
3. Optimal Cloud Broker Method for Cloud Selection in Mobile Inter-Cloud Computing
Isaac Woungang, Alagan Anpalagan, Leonard Barolli, Makoto Takizawa
4. A Fuzzy-based Reliability System for JXTA-Overlay P2P Platform Considering Number of Interaction, Security, Packet Loss and Local Score Parameters
Yi Liu, Shinji Sakamoto, Keita Matsuo, Leonard Barolli, Makoto Ikeda, Fatos Xhafa
5. Synchronization of Peers in Peer-to-peer Publish/Subscribe Systems
Hiroki Nakayama, Dilawaer Duolikun, Tomoya Enokido, Makoto Takizawa

esIoT-S1: Networking, Security and IPv6 for the IoT - Room 4**Chair: Antonio J. Jara, HES-SO, Switzerland**

1. A Novel Privacy and Security Framework for the Cloud Network Services
Irish Singh, K.N. Mishra, Antonio Alberti, Dhananjay Singh, Antonio Jara
2. JSON Sensor Signatures (JSS): End-to-End Integrity Protection from Constrained Device to IoT Application
Henrich C. Pöhls
3. Certificateless and Privacy-enhancing Group Sharing Mechanism for the Future Internet
José L. Hernández Ramos, Jorge Bernal Bernabe, Salvador Perez Franco, Antonio F. Skarmeta
4. Towards a Human Centric Intelligent Society
Ian Thoma, Lou Fedon, Antonio Jara, Yann bocchi

BDITS-S1: Network Resource Management and Intrusion Detection - Room 5**Chair: Baojiang Cui, Beijing University of Posts and Telecommunications, China**

1. Research on the Collaborative Analysis Technology for Source Code and Binary Executable Based upon the Unified Defect Mode Set
Xiaobing Liang, Baojiang Cui, Yingjie Lv, Yilun Fu
2. Passive Storage Based Wireless Network resource management for 4G LTE
Ran Tao, Wen'an Zhou, Xuhui Yang, Guanglin Han
3. A New Framework of Security Vulnerabilities Detection in PHP Web Application
Zhao Jingling, Gong Rulin
4. Multi-Layer Anomaly Detection for Internet Traffic Based on Data Mining
Baojiang Cui, Shanshan He, Haifeng Jin

13:00-14:30 Lunch Break**14:30-16:30 Parallel Sessions****ITAUC-S1: Intelligent Techniques and Algorithms for Ubiquitous Computing - Room 2****Chair: Hsing-Chung Chen, ASIA University, Taiwan**

1. Context-aware Applications in Mobile Sink of Wireless Sensor Networks
Chia-Hsin Cheng, Yeong-Long Shiue, Wei-Chia Lo, Hsing-Chung Chen
2. The Impact of Use of Information Technology Teaching for Kindergarten Education
Yen-Tsung Lin, Hsing-Chung Chun, Shu-Hui Chuang
3. Double K-Folds in SVM
Fengming Chang, Hsing-Chung Chen, Hsiang-Chuan Liu
4. A New Uighur Automatic Summarization Method
Xiaodong Yan
5. A Patient-Driven Mobile Medical Information System Applying to Physician Clinical Care
Ching-Kan Lo, Ye-Chi Wu, Cheng-Hung Chuang, Hsing-Chung Chen
6. A Mobile Nursing App Applying to the Wound Care and Drug Administration of Patients
Ching-Kan Lo, Sin-Sen Chang, Cheng-Hung Chuang, Hsing-Chung Chen

SMEUCE-S1: Sustainability Management of e-Business and Information Management - Room 3**Chair: Hsing-Chung Chen, ASIA University, Taiwan**

1. A Case Study of Valuation and Value Drivers in the Edible Oil and Fats Industry: TTET Union Corporation
Kuei-Yuan Wang, Shu-E Chung
2. Professional Network Structure and Relationship Quality Effects on Member Knowledge Acquisition, Well-being, and Performance
Mei Hua Huang
3. Examining the Direct and Moderating Effects of Relational Exchange and Innovation Characteristics on New Product Adoption
Mei Hua Huang
4. How to Enhance Market Value? A Balanced Scorecard Perspective
Ying-Li Lin
5. How Do Political Relations Affect State-Owned Bank Loans?
Ying-Li Lin

esIoT-S2: Adaptive IoT - Room 4**Chair: Antonio J. Jara, HES-SO, Switzerland**

1. Service Platform for Automated IoT Service Provisioning
Timo Niemirepo, Markus Sihvonen, Vesa Jordan, Juhani Heinilä
2. Big Data Processing of Bio-signal Sensors Information for Self-management of Health and Diseases
Diego Gachet Páez, Manuel de Buenaga, Enrique Puertas, María Villalva
3. A Semantic Engine for Internet of Things: Cloud, Mobile Devices and Gateways
Amelie Gyrard, Soumya Kanti Datta, Christian Bonnet, Karima Boudaoud
4. SDN Based Architecture for Clustered WSN
Flauzac Olivier, Gonzalez Carlos, Nolot Florent
5. Dynamic Transmission Mode Selection and Resource Sharing Schemes for M2M Communications in Cellular Networks
Luan Xi, Wu Jianjun, Cheng Yuxin, Xiang Haige

BDITS-S2: Big Data, Cloud Computing and Security - Room 5**Chair: Baojiang Cui, Beijing University of Posts and Telecommunications, China**

1. Security Analysis of Openstack Keystone
Baojiang Cui, Tao Xi
2. A Secure Architecture for Data Storage in the Cloud Environments
Chuan Fu, Jun Yang, Zheli Liu, Chunfu Jia
3. A Dynamic Self-Adaptive Algorithm for Uploading Deferrable Big Data to The Cloud Cost-Effectively
Baojiang Cui, Peilin Shi, Haifeng Jin
4. Research on the Performance of Mining Online Education Packets for Malware Detection between PM and VM
Jun Yang, Jiangdong Deng, Baojiang Cui, Haifeng Jin

16:30-17:00 Coffee Break

17:00-19:00 Parallel Sessions

WAIS-S1: Privacy and Security - Room 2**Chair: Hiroaki Kikuchi, Meiji University, Japan**

1. Consideration of the XOR-operation based Secure Multiparty Computation
Yuji Suga
2. Automated Detection of Drive-by Download Attack
Hiroaki Kikuchi, Hiroaki Matsumoto, Hiroshi Ishii
3. General Construction for the Resources Information Library of Shaanxi Folk Culture and Art
Shuhua Zhang, Changsong Yang, Tao Jiang
4. A Survey of Hardware Features in Modern Browsers: 2015 Edition
Ko Takasu, Takamichi Saito, Tomotaka Yamada, Takayuki Ishikawa
5. Study on Diffusion of Protection/Mitigation against Memory Corruption Attack in Linux Distributions
Takamichi Saito, Hiroyuki Miyazaki, Takaaki Baba, Yoshifumi Sumida, Yosuke Hori

SMEUCE-S2: Ubiquitous Commerce Engineering and Operation Management - Room 3**Chair: Hsing-Chung Chen, ASIA University, Taiwan**

1. The Relationship of Companies Social Connection and SEOs
Mei-Hua Liao, Li-Wen Chen, Saburo Horimoto
2. Study of e-business strategy in Japanese Family Business and Long-Established Companies
Hidekazu Sone, Mei-Hua Liao
3. An Exploratory Study on Mongolian Women Consumer Behavior toward Purchasing Luxury Fashion Brands
Ya-Wen Yu, Shao-Chun Chiu, Chen-Yu Chen, Bolortuya Odser
4. Explore the Development of Social Enterprises in Taiwan from the Dynamic Capabilities Approach
Yen-Tsung Lin, Hsing-Chung Chun, Shu-Hui Chuang

esIoT-S3: IoT Solutions - Room 4**Chair: Antonio J. Jara, HES-SO, Switzerland**

1. Solar Production Prediction Based on Non Linear Meteo Source Adaptation
Mariam Barque, Luc Dufour, Dominique Genoud, Arnaud Zufferey, Bruno Ladevie, Jean-Jacques Beziau
2. Scalable Approaches to Integration in Heterogeneous IoT and M2M Scenarios
Alex Carmine Olivieri, Gialuca Rizzo
3. Using 5G technologies in the Internet of Things Handovers, problems and challenges
Borja Bordel Sánchez, Álvaro Sánchez-Picot, Diego Sánchez De Rivera
4. Experiences with RFID technology to manage information during natural disasters
Miguel A. Wister, Pablo Pancardo, Francisco D. Acosta, J. A. Hernández-Nolasco, Eddy Sánchez-Delacruz

19:00-22:00 Banquet Party

Friday, July 10, 2015

IMIS-2015 Organizing Committee Meeting and Discussion