

# **2016 10th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2016)**

**Fukuoka, Japan  
6-8 July 2016**



**IEEE Catalog Number: CFP1658N-POD  
ISBN: 978-1-5090-0985-5**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\*This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1658N-POD
ISBN (Print-On-Demand):	978-1-5090-0985-5
ISBN (Online):	978-1-5090-0984-8
ISSN:	2375-8287

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# **2016 10th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing**

## **IMIS 2016**

### **Table of Contents**

<b>Message from IMIS 2016 General Co-Chairs .....</b>	xvii
<b>Message from IMIS 2016 Program Committee</b>	
<b>Co-Chairs .....</b>	xix
<b>Message from IMIS 2016 Workshops</b>	
<b>Co-Chairs .....</b>	xx
<b>IMIS 2016 Organizing Committee.....</b>	xxi
<b>IMIS 2016 Track Chairs and Program Committees.....</b>	xxii
<b>IMIS 2016 Reviewers.....</b>	xxviii
<b>Keynotes .....</b>	xxix
<b>Message from ACTICS 2016 Workshop</b>	
<b>Co-Chairs .....</b>	xxx
<b>ACTICS 2016 Organizing Committee.....</b>	xxxi
<b>ACTICS 2016 Reviewers.....</b>	xxxii
<b>Message from BDITS 2016 Workshop</b>	
<b>Co-Chairs.....</b>	xxxiii
<b>BDITS 2016 Organizing Committee.....</b>	xxxiv
<b>BDITS 2016 Reviewers.....</b>	xxxv
<b>Message from esIoT 2016 Workshop</b>	
<b>Organizers.....</b>	xxxvi
<b>esIoT 2016 Organizing Committee.....</b>	xxxvii
<b>esIoT 2016 Reviewers.....</b>	xxxix
<b>Message from FIMIS 2016 Workshop</b>	
<b>Co-Chairs.....</b>	xl

<b>FIMIS 2016 Organizing Committee .....</b>	xli
<b>FIMIS 2016 Reviewers.....</b>	xlii
<b>Message from FINGNet 2016 Workshop</b>	
<b>Co-Chairs.....</b>	xliii
<b>FINGNet 2016 Organizing Committee.....</b>	xliv
<b>FINGNet 2016 Reviewers.....</b>	xlv
<b>Message from ITAUC 2016 Workshop Chairs.....</b>	xlvi
<b>ITAUC 2016 Organizing Committee .....</b>	xlvii
<b>ITAUC 2016 Reviewers.....</b>	xlviii
<b>Message from MCNCS 2016 Workshop</b>	
<b>Co-Chairs.....</b>	.xlvix
<b>MCNCS 2016 Organizing Committee .....</b>	.l
<b>MCNCS 2016 Reviewers.....</b>	.li
<b>Message from PIS-PIS 2016 Workshop</b>	
<b>Co-Chairs .....</b>	.lii
<b>PIS-PIS 2016 Organizing Committee .....</b>	.liii
<b>PIS-PIS 2016 Reviewers.....</b>	.liv
<b>Message from SMEUCE 2016 Workshop</b>	
<b>Co-Chairs.....</b>	.lv
<b>SMEUCE 2016 Organizing Committee.....</b>	.lvii
<b>SMEUCE 2016 Reviewers .....</b>	.lviii
<b>Message from WAIS 2016 Workshop</b>	
<b>Co-Chairs.....</b>	.lviii
<b>WAIS 2016 Organizing Committee.....</b>	.lvix
<b>WAIS 2016 Reviewers.....</b>	.lx

---

## **IMIS 2016**

### **Session 1: Context and Location-Aware Computing**

An Approach for Predicting Disease Outbreaks Using Fuzzy Inference among Physiological Variables .....	1
<i>Eunji Lee, Chang Choi, Minchang Lee, Kunseok Oh, and Pankoo Kim</i>	
Image-Based Plant Recognition by Fusion of Multimodal Information .....	5
<i>Jen-Chang Liu, Chieh-Yu Chiang, and Sam Chen</i>	

Mining Crowdsourcing Photos for Recognizing Landmark Areas .....	12
<i>Yi-Hau Liu, Shian-Hua Lin, Chun-Ku Lai, Chun-Che Huang, and Cheng-Yu Lu</i>	
Component Extraction from Handwritten Chinese Characters for Font Synthesis in Personal Style Using Smartphone APP .....	20
<i>Chen-Ying Hsieh and Jeng-Wei Lin</i>	
A Particle Filter Approach for Pedestrian Dead Reckoning Using Wearable Sensors .....	26
<i>Yi-Lin Hsu, Yan-Ju Chen, and Sheng-Wen Shih</i>	
Performance Analysis of Amplify and Forward Technique in Region Based Cooperative Routing for Underwater Wireless Sensor Networks .....	33
<i>Sheraz Hussain, Nadeem Javaid, Muhammad, Israr Ahmad, Umar Qasim, and Zahoor Ali Khan</i>	

## **Session 2: Wireless Sensor Networks**

A QoS-aware Actor Node Selection System for Wireless Sensor and Actor Networks Using Fuzzy Logic .....	42
<i>Donald Elmazi, Shinji Sakamoto, Elis Kulla, Tetsuya Oda, Makoto Ikeda, and Leonard Barolli</i>	
AVN-AHH-VBF: Avoiding Void Node with Adaptive Hop-by-Hop Vector Based Forwarding for Underwater Wireless Sensor Networks .....	49
<i>Taimur Hafeez, Nadeem Javaid, Ahmad Raza Hameed, Arshad Sher, Zahoor Ali Khan, and Umar Qasim</i>	
Geographic and Opportunistic Clustering for Underwater WSNs .....	57
<i>Syed Zarar, Nadeem Javaid, Arshad Sher, Ahmad Raza Hameed, Zahoor Ali Khan, and Umar Qasim</i>	
Multi-sensor Based Low Power Sensing Model for Inferencing Location Context .....	63
<i>Deok-Ki Kim, Jae-Hyeon Park, and Jung-Won Lee</i>	
Enhanced Energy Efficient Depth Based Routing Protocol for Underwater WSNs .....	70
<i>Malik Khizar, Abdul Wahid, Khayyam Pervaiz, Mahin Sajid, Umar Qasim, Zahoor Ali Khan, and Nadeem Javaid</i>	
DRADS: Depth and Reliability Aware Delay Sensitive Routing Protocol for Underwater WSNs .....	78
<i>Usman Shakeel, Naeem Jan, Khizar, Umar Qasim, Zahoor Ali Khan, and Nadeem Javaid</i>	

## **Session 3: Security and Privacy**

Anomaly Detection Model Based on Hadoop Platform and Weka Interface .....	84
<i>Baojiang Cui and Shanshan He</i>	
An Emergency Communication System Based on UAV-assisted Self-Organizing Network .....	90
<i>Tianhan Gao, Fan Lang, and Nan Guo</i>	
Dynamic Taint Tracking of Web Application Based on Static Code Analysis .....	96
<i>Jingling Zhao, Junxin Qi, Liang Zhou, and Baojiang Cui</i>	
A Security Risk Assessment Framework for Smart Car .....	102
<i>Hee-Kyung Kong, Tae-Sung Kim, and Myoung-Ki Hong</i>	
Understanding Factors Affecting Information Security Practice of Elementary School Students .....	109
<i>Seung-Jae Choi and Tae-Sung Kim</i>	
Achieving Virtualization Trustworthiness Using Software Mechanisms .....	114
<i>Francois Serman and Michael Hauspie</i>	

## **Session 4: Multimedia Systems and Applications**

Proposal of a Virtual Traditional Japanese Crafting Presentation System Mobile Edition .....	120
<i>Misaki Iyobe, Tomoyuki Ishida, Akihiro Miyakawa, Kaoru Sugita, Noriki Uchida, and Yoshitaka Shibata</i>	
Template-Driven Medical Imaging Information Providing Process Using Semantic Relations Targeting Acute Myocardial Infarction .....	126
<i>Ye-Seul Park, Meeyeon Lee, and Jung-Won Lee</i>	
Implementation of Voice Guidance Function for Sightseeing Contents Using Web Speech API .....	133
<i>Kaoru Sugita and Masao Yokota</i>	
Feedback of Laughter by Detecting Variation in Respiration Amplitude for Augmenting Laughter .....	139
<i>Makoto Fukumoto and Ryoichi Nagamatsu</i>	
Improvement of Group Discussion System for Active Learning Using Smartphone .....	143
<i>Noriyasu Yamamoto</i>	
Design and Implementation of a C++ Memory Leak Detection Tool Based on Dynamic Instrumentation .....	149
<i>Liang Zhou, Siran Fu, Tao Guo, Lifang Han, and Baojiang Cui</i>	

## **Session 5: Energy Saving and Intelligent Computing**

Automatic Synthesis of Best Practices for Energy Consumptions .....	154
<i>Matteo Cristani, Francesco Olivieri, and Claudio Tomazzoli</i>	
Design and Evaluation of Algorithms to Energy-Efficiently Select Servers for Storage and Computation Processes .....	162
<i>Atsuhiro Sawada, Hiroki Kataoka, Dilawaer Duolikun, Tomoya Enokido, and Makoto Takizawa</i>	
MobiL-AUV: AUV-Aided Localization Scheme for Underwater Wireless Sensor Networks .....	170
<i>Hammad Maqsood, Nadeem Javaid, Aqeb Yahya, Babar Ali, Zahoor Ali Khan, and Umar Qasim</i>	
Bandwidth Estimation Based on MACD for DASH .....	176
<i>Van-Huy Vu and Tein-Yaw Chung</i>	
Performance Analysis of a Genetic Algorithm Based System for Wireless Mesh Networks Considering Weibull Distribution, DCF and EDCA .....	182
<i>Admir Barolli, Tetsuya Oda, Ilir Shinko, Leonard Barolli, Fatos Xhafa, and Makoto Takizawa</i>	
A Vegetable Category Recognition System Using Deep Neural Network .....	189
<i>Yuki Sakai, Tetsuya Oda, Makoto Ikeda, and Leonard Barolli</i>	

## **Session 6: Big Data and Data Management**

Rule-Based Action Recognition: Performance Comparison between Lua and GDL Script Language .....	193
<i>Tomasz Hachaj and Marek R. Ogiela</i>	
Efficiency of Strategic Data Sharing and Management Protocols .....	198
<i>Lidia Ogiela, Marek R. Ogiela, and Urszula Ogiela</i>	
A New Multiple Label Propagation Algorithm for Linked Open Data .....	202
<i>Toshitaka Maki, Kazuki Takahashi, Toshihiko Wakahara, Akihiro Yamaguchi, Yu Ichifuji, and Noboru Sonehara</i>	
Adaptive Array Antenna Control Methods on Delay Tolerant Networks for Road Surveillance Systems .....	209
<i>Noriki Uchida, Kenta Ito, Go Hirakawa, and Yoshitaka Shibata</i>	
Energy-Aware Analysis of Synchronizing a Groupware Calendar .....	215
<i>Fatos Xhafa, Daniel Palou, Leonard Barolli, and Makoto Takizawa</i>	
Improvement of Large Data Acquisition Method without the Interference on the CPU Load for Automotive Software Testing .....	223
<i>Jong-Hwan Shin, Ki-Yong Choi, Jeong-Woo Lee, and Jung-Won Lee</i>	

## **Session 7: Wireless and Mobile Networks**

HRB: A New MAC Level 2–Hop Broadcast Protocol with Directional Receiving .....	231
<i>Tetsuro Kuniyasu and Tetuya Shigeyasu</i>	
An Energy-Efficient Routing Protocol for Infrastructure-Less Opportunistic Networks .....	237
<i>Khuram Khalid, Isaac Woungang, Sanjay K. Dhurandher, Leonard Barolli, Glaucio H. S. Carvalho, and Makoto Takizawa</i>	
An Intra-Cluster CoMP Based Sleep-Mode Scheme in Dense Heterogeneous Network .....	245
<i>Da Li, Wen'An Zhou, Xuhui Yang, and Haitao Du</i>	
Hybrid Routing Scheme Combining with Geo-Routing and DTN in VANET .....	250
<i>Fumiaki Sato and Ryohei Kikuchi</i>	
Cooperative Load Balancing in OFDMA Small Cell Networks .....	256
<i>Tianrun Gao, Gaofeng Nie, Chenshan Ren, and Hui Tian</i>	
On Timing of Handoff Decision Making on Heterogeneous Wireless Networks .....	261
<i>Tein Yaw Chung, Fong Ching Yuan, and Hsun-Fu Liu</i>	

## **ACTICS 2016**

### **Session 1: Next Generation Network Applications**

Assessing Driving Behavior in Public Transportation through Mobile Crowd Sensing: A Concept Proposal for Macau Public Transportation System .....	267
<i>Fei Chun Ma, Sok Hán Tóng, and João Cordeiro</i>	
A Scalable SDN-EPC Architecture Based on OpenFlow-Enabled Switches to Support Inter-domain Handover .....	272
<i>El Bouatmani Hamza and Shigetomo Kimura</i>	
Improving Energy Consumption of Epidemic Routing in Delay Tolerant Networks .....	278
<i>Bhed Bahadur Bista</i>	
Improved HydroCast: A Technique for Reliable Pressure Based Routing for Underwater WSNs .....	284
<i>Muhammad, Nadeem Javaid, Babar Ali, Aqeb Yahya, Zahoor Ali Khan, and Umar Qasim</i>	

## **BDITS 2016**

### **Session 1: Security and Anomaly Detection**

An Improved Algorithm of Prefixspan .....	291
<i>Pengfei Li and Songling Shan</i>	
Research on the Identification of Software Behavior in Anomaly Detection .....	295
<i>Jun Yang, Xiangping Du, Liang Zhou, Songling Shan, and Baojiang Cui</i>	
Research on the Vulnerability Predicting Analysis Model for Binary	
Executables .....	299
<i>Liang Xiaobing, Zhao Bing, Wang Rui, and Liu Ying</i>	
The Performance Optimization of Hadoop during Mining Online Education	
Packets for Malware Detection .....	305
<i>Xuan Tian, Baojiang Cui, Jiangdong Deng, and Jun Yang</i>	
The Scheme of Detecting Encoded Malicious Web Pages Based	
on Information Entropy .....	310
<i>Shuang Liang, Yong Ma, Yanyu Huang, Jia Guo, and Chunfu Jia</i>	
The Approach to Detect Abnormal Access Behavior Based on Naive Bayes	
Algorithm .....	313
<i>Yong Ma, Shuang Liang, Xuan Chen, and Chunfu Jia</i>	

## **esIoT 2016**

### **Session 1: Internet of Things and Smart Homes**

Plug-and-Play Transducers in Cyber-Physical Systems for Device-Driven	
Applications .....	316
<i>Borja Bordel, Diego Sánchez de Rivera, and Ramón Alcarria</i>	
Emergency Population Warning about Floods by Social Media .....	322
<i>Miguel A. Wister, J. A. Hernández-Nolasco, Pablo Pancardo,</i>	
<i>Francisco D. Acosta, and Antonio Jara</i>	
Appliance Scheduling for Energy Management with User Preferences .....	328
<i>Nusrat Shaheen, Nadeem Javaid, Najmun Nisa, Amber Madeeha Zeb,</i>	
<i>Zahoor Ali Khan, and Umar Qasim</i>	
Performance Evaluation of an IoT-based e-Learning Testbed Considering	
OLSR and WEP Protocols .....	335
<i>Masafumi Yamada, Tetsuya Oda, Yi Liu, Masahiro Hiyama, Keita Matsuo,</i>	
<i>and Leonard Barolli</i>	

Optimal Scheduling in Smart Homes with Energy Storage Using Appliances' Super-Clustering .....	342
<i>Sakeena Javaid, Nadeem Javaid, Muhammad Shoaib Javaid, Sehrish Javaid, Umar Qasim, and Zahoor Ali Khan</i>	

## **FIMIS 2016**

### **Session 1: Innovative Internet Service and Technologies**

The Expert System of Locomotive Running Gear Based on Sematic Network .....	349
<i>Jie Tao, Yilun Liu, Yiping Wen, and Jiahui Su</i>	
Access Authentication Schemes for PMIPv6: A Survey .....	355
<i>Tianhan Gao, Nan Guo, Fanghua Geng, and Xinyang Deng</i>	
A New Laboratory Assignment Support System for Undergraduate Students .....	361
<i>Kazuki Takahashi, Toshitaka Maki, and Toshihiko Wakahara</i>	
Wireless Remote Patient Monitoring System: Effects of Interference .....	367
<i>Andrew Yearp, David Newell, Philip Davies, Russell Wade, and Reza Sahandi</i>	
A Collaborative Safety Flight Control System for Multiple Drones .....	371
<i>Tomoki Okutake, Noriki Uchida, and Noriyasu Yamamoto</i>	
Skyline Query Processing System for Taiwan Maps .....	376
<i>Tzu-Hsien Wang, Yuan-Ko Huang, and Chiang Lee</i>	

## **FINGNet 2016**

### **Session 1: Security Issues and Networks**

Authentication for Mobile Open IPTV Service Security .....	381
<i>Jiyoung Lim, Inshil Doh, and Kijoon Chae</i>	
A Group Authentication Scheme Based on Lagrange Interpolation Polynomial .....	386
<i>Shi Li, Inshil Doh, and Kijoon Chae</i>	
Study on the Sustainable Migration to Software Defined Network for Nation-Wide R&E Network .....	392
<i>Hyoung Woo Park, IL Sun Hwang, and Jongsuk Ruth Lee</i>	
EDISON Nanophysics: Web-Based e-Learning Platform for Education and Research in Nanoscience .....	397
<i>Inho Jeon, Chan-Ho Choi, Jerry H. Seo, Youngsik Joe, Kumwon Cho, and Hoon Ryu</i>	
Analysis and Detection of Anomalous Network Traffic .....	403
<i>Hae-Duck J. Jeong, Hyeonggeun Kim, WonHwi Ahn, Jung-Hee Oh, Dawoon Lee, Sang-Kug Ye, and Jongsuk R. Lee</i>	

## **Session 2: Health and Video Streaming Services**

Health Service Knowledge Management to Support Medical Group Decision Making .....	409
<i>Hyun Jung Lee and Mye Sohn</i>	
A Wireless Body Sensor Network and Its Applications: Rehearsal with a Smartphone .....	415
<i>WooSeok Hyun, Ilsun You, JoungSoon Jang, and Fang-Yie Leu</i>	
Modified Active Shape Model for Realtime Facial Feature Tracking on iPhone .....	419
<i>Yong-Hwan Lee, Youngseop Kim, Heung-Jun Kim, In-Kyoung Shin, Hyochang Ahn, and YuKyong Lee</i>	
Efficient Image Retrieval Using Image and Audio Features in Video Stream .....	422
<i>In-Kyoung Shin, Hyochang Ahn, and Yong-Hwan Lee</i>	

## **ITAUC 2016**

### **Session 1: Intelligent Techniques and Algorithms**

On the Robust Approach to Data Inconsistency Detection of Sensor Networks .....	425
<i>Tzu-Liang Kung, Chun-Nan Hung, Yuan-Hsiang Teng, Jui-Yu Hung, and Lih-Hsing Hsu</i>	
A Framework of Cycle-Based Clustering on the Crossed Cube Architecture .....	430
<i>Tzu-Liang Kung, Chun-Nan Hung, Cheng-Kuan Lin, Hsiang-Chun Chen, Chia-Hui Lin, and Lih-Hsing Hsu</i>	
Identification of Negative Comments on Internet Forums .....	435
<i>Jung-Kuei Chang, Wei-Yun Hsu, Te-Chan Chen, and Hui-Huang Hsu</i>	
Security Awareness Investigation for Mobile User Examined by Using Association Rule Mining Method .....	440
<i>Hsing-Chung Chen, Pei-Chi Yeh, Ze-Min Lin, and Qiu-Hua Ruan</i>	
Intelligent Management Model Based on CBR-SDA Approach – An Example of Smart Life Recommendation System for Choosing Clothes and Accessories .....	446
<i>Hsing-Chung Chen, Qiu-Hua Ruan, Pei-Chi Yeh, and Ze-Min Lin</i>	

## **MCNCS 2016**

## **Section 1: Network Applications and Security**

Identifying Variable-Power Appliances in Non-intrusive Load Monitoring Systems .....	452
<i>Hung-Yuan Chen, Yao-Chung Fan, Chien-Liang Lai, and Huan Chen</i>	
Finite State Machine Based Real Time Scheduling for Microchip .....	458
<i>Fang-Yie Leu and Yi-Ting Hsiao</i>	
A Version Control-Based Continuous Testing Frame for Improving the IID Process Efficiency and Quality .....	464
<i>Sen-Tarn Lai and Fang-Yie Leu</i>	
A Secure and High Performance Wireless Sensor Network Based on Symmetric Key Matrix .....	470
<i>Yi-Li Huang, Fang-Yie Leu, Po-Hao Su, Ti-Hsun Sung, and Sin-Cheng Liu</i>	
Cloud Encryption Using Distributed Environmental Keys .....	476
<i>Kun-Lin Tsai, Fang-Yie Leu, Yi-Fung Huang, Chi Yang, Cheng-Hsin Chang, King-Shing Yip, Yuchen Xue, and Guan-Chi Lai</i>	
A Secure Official Vehicle Communication Protocol for VANET .....	482
<i>Xia-Yun Guo, Chin-Ling Chen, Chang-Qing Gong, and Fang-Yie Leu</i>	

## **PIS-PIS 2016**

### **Session 1: Security for Public Internet Services**

A Brief Review on JTAG Security .....	486
<i>Kyungroul Lee, Yeunsu Lee, Hyeji Lee, and Kangbin Yim</i>	
Impacts of Frequency Selectivity on the Error Performance of Time-Domain Equalizers in MIMO Systems .....	491
<i>Byeong-Gwon Kang, Seungyong Han, and Sangjoon Park</i>	
Malicious Script Blocking Detection Technology Using a Local Proxy .....	495
<i>SangHwan Oh, HanChul Bae, SooJin Yoon, HwanKuk Kim, and YoungTae Cha</i>	
Analysis on the Key Storage Mechanism of the CNG Library .....	499
<i>Kyungroul Lee, Hyeji Lee, Yeunsu Lee, and Kangbin Yim</i>	
Issues and Implementation Strategies of the IoT (Internet of Things) Industry .....	503
<i>Yeon Seungjun and Jun Hyojung</i>	
A Novel Hybrid Algorithm Based on Hill Matrix and Haar Domain Sequence .....	509
<i>Guangming Yang, Zhenhua Tan, Fanghua Geng, and Tianhan Gao</i>	
Invisible Secure Keypad Solution Resilient against Shoulder Surfing Attacks .....	514
<i>Dongmin Choi, Chang Choi, and Xin Su</i>	

## **SMEUCE 2016**

### **Session 1: Knowledge Learning and Service Innovation**

Exploring Value of e-Service Innovation: e-Service and Co-operation	
Complementarity .....	518
<i>Tin-Chang Chang and Shu-Hui Chuang</i>	
Can Workplace Friendship Reduce Social Loafing? .....	522
<i>Ching-Hui Shih and Yao-Hua Wang</i>	
Exploring the Performance of Service Innovation: Infrastructure Capability	
and Innovation Orientation Complementarity .....	527
<i>Shu-Hui Chuang, Shinyi Lin, and Tin-Chang Chang</i>	
Old-Established Companies' Traditions and Innovations – Focusing	
on e-Business of Japan and Taiwan .....	531
<i>Mei-Hua Liao, Yu-Ci Xu, and Hidekazu Sone</i>	
The Key Value-Drivers of Successful Travel Agency from the Perspective of Its	
Core Competence: Lion Travel versus Phoenix Tours .....	533
<i>Kuei-Yuan Wang and Cheng-Chun Kuo</i>	

### **Session 2: Sustainability Management for e-Business and Professional Associations**

SEO Behavior of the Family Firms through Agency Theory Perspective .....	538
<i>Mei-Hua Liao, Wun-Huei Chen, and Ying-Yun Lin</i>	
Antecedents and Outcomes of Trust in Professional Associations .....	541
<i>Mei Hua Huang and Chiung Yen Chen</i>	
Causal Analysis in Human Capital, R&D Assets and Financial Performance:	
Evidence from Taiwanese Firms Operating in China .....	546
<i>Ying-Li Lin, Fang-Hua Hsiao, and Pei-Shan Li</i>	
The Impact of Stock Prices, Risks and Business Cycle on Overconfidence .....	551
<i>Yung-Shun Tsai, Chun-Ping Chang, Shyh-Weir Tzang, and Yu-Jhen Liou</i>	
A Comparative Study of Valuation and Value Drivers in the Auto Lamp	
Industry: Two Cases of Auto Lamp Companies .....	556
<i>Chien-Wen Lai, Kuei-Yuan Wang, and Tzu-Yu Lin</i>	

## **Session 3: Ubiquitous Commerce and Operation Management**

Successor Audit Partner Choice for Mandatory Audit Partner Rotation	
Companies .....	563
<i>Li-Jen He</i>	
An Investigation into Human Resources and Operating Performance	
between Competitive Strategies of Taiwan Public Accounting Firms .....	567
<i>Chiung Yen Chen and Mei Hua Huang</i>	
The Effect of Corporate Social Responsibility Initiatives on Internal Employee	
Motivation and Organizational Identification .....	573
<i>Chia-Ju Lu, Yi-Yu Shih, and Shih-Ten Wang</i>	
The Hindsight of ADR Listing – An Empirical Study on M&A Activities	
for Acquirers Before-and-After ADR Listing .....	578
<i>Nien-Tzu Yang</i>	
Linking Dynamic Equity Valuations to Optimum Weighting in the Performance	
Compensation System .....	584
<i>Chung-Jen Fu and Chiung-Yao Huang</i>	

## **WAIS 2016**

### **Session 1: Secure Systems**

Estimating CPU Features by Browser Fingerprinting .....	587
<i>Takamichi Saito, Koki Yasuda, Takayuki Ishikawa, Rio Hosoi,</i>	
<i>Kazushi Takahashi, Yongyan Chen, and Marcin Zalasiński</i>	
An Authorization Scheme Concealing Client's Access from Authentication	
Server .....	593
<i>Takamichi Saito, Yuta Tsunoda, Daichi Miyata, Ryohei Watanabe,</i>	
<i>and Yongyan Chen</i>	
Interactive History Sniffing Attack with Amida Lottery .....	599
<i>Hiroaki Kikuchi, Kota Sasa, and Yuta Shimizu</i>	
A Proposal for Cyber-Attack Trace-Back Using Packet Marking and Logging .....	603
<i>Pengfei Li, Yaokai Feng, Junpei Kawamoto, and Kouichi Sakurai</i>	
A Behavior-Based Method for Detecting DNS Amplification Attacks .....	608
<i>Longzhu Cai, Yaokai Feng, Junpei Kawamoto, and Kouichi Sakurai</i>	
Generalized Graph-Based Visual Secret Sharing Schemes for Multiple Secrets .....	614
<i>Yuji Suga</i>	
<b>Author Index .....</b>	<b>620</b>