

2015 IEEE 29th International Conference on Advanced Information Networking and Applications Workshops

(WAINA 2015)

**Gwangju, South Korea
24-27 March 2015**



**IEEE Catalog Number: CFP1581D-POD
ISBN: 978-1-4799-1776-1**

2015 29th International Conference on Advanced Information Networking and Applications Workshops

WAINA 2015

Table of Contents

AINA 2015 Steering Committee Co-Chairs.....	xviii
Message from AINA 2015 General Co-Chairs.....	xx
AINA 2015 Program Committee Co-Chairs.....	xxi
AINA 2015 Workshops Co-Chairs.....	xxiii
Message from the BICom 2015 Workshop Co-Chairs.....	xxiv
BICom 2015 Organizing Committee and Reviewers.....	xxv
Message from the COLLABES 2015 Workshop Organizers.....	xxvii
COLLABES 2015 Organizing Committee and Reviewers.....	xxviii
Message from the DC2 2015 Workshop Co-Chairs.....	xxix
DC2 2015 Organizing Committee and Reviewers.....	xxx
Message from the EEEWSN 2015 Symposium Chairs.....	xxxi
EEEWSN 2015 Organizing Committee and Reviewers.....	xxxii
Message from the FINA 2015 Symposium Co-Chairs.....	xxxiv
FINA 2015 Organizing Committee and Reviewers.....	xxxv
Message from the HWISE 2015 Workshop Co-Chairs.....	xxxvii
HWISE 2015 Organizing Committee and Reviewers.....	xxxviii
Message from the ICAES 2015 Workshop Co-Chairs.....	xl
ICAES 2015 Organizing Committee and Reviewers.....	xli
Message from the INTRICATE-SEC 2015 Workshop Chairs.....	xlii
INTRICATE-SEC 2015 Organizing Committee and Reviewers.....	xliii
Message from the ITIS 2015 Workshop Co-Chairs.....	xliv
ITIS 2015 Organizing Committee and Reviewers.....	xlv

Message from the IWDENS 2015 Workshop	
Organizers	xlvii
IWDENS 2014 Organizing Committee and Reviewers	xlviii
Message from the MAW 2015 Symposium Organizers	xlviix
MAW 2015 Organizing Committee and Reviewers	l
Message from the NetMM 2015 Workshop Chair	lii
NetMM 2015 Organizing Committee and Reviewers	liii
Message from the PAMS 2015 Workshop General	
Chairs	liv
PAMS 2015 Organizing Committee and Reviewers	lv
Welcome Message from the PITSaC 2015 Workshop	
General Chairs	lvii
PITSaC 2015 Organizing Committee and Reviewers	lvix
Message from the TeNAS 2015 Workshop Organizers	lxii
TeNAS 2015 Organizing Committee and Reviewers	lxiii

The Eighth International Workshop on Bio and Intelligent Computing (BICom-2015)

Session 1: Wearable and Mobile Computing

Template Matching Compression Algorithm for Wearable ECG Measurement System Based on Multi Wireless Transmission Platform	1
<i>Tae-Young Kim, Yun-Hong Noh, and Do-Un Jeong</i>	
Implementation of the Variable ECG Data Packet Transmission System with Activity State	6
<i>Byeong-Gu Ahn, Yun-Hong Noh, and Do-Un Jeong</i>	
A Wearable ECG Monitoring System Using Adaptive EMD Filter Based on Activity Status	11
<i>Byeong-Hoon Kim, Yun-Hong Noh, and Do-Un Jeong</i>	
Design and Analysis of an Enhanced Secure Mechanism of LLRP in RFID Systems	17
<i>Baojiang Cui, Ziyue Wang, Jun Yang, and Xiaofeng Chen</i>	
Privacy-Preserving Traffic Monitoring in Vehicular Ad Hoc Networks	22
<i>Chen Yang, Bo Qin, Xiuwen Zhou, Yang Sun, Shuangyu He, and Qianhong Wu</i>	

Session 2: Healthcare and Smart Environments

Hybrid Cloud Service Based Healthcare Solutions	25
<i>Young Sil Lee, Ndibanje Bruce, Thirananon Non, Esko Alasaarela, and Hoonjae Lee</i>	
Integrated and Personalized Diabetes Coach for Children	31
<i>Andy Harris, Arjan Durrezi, Mihran Tuceryan, and Tamara S. Hannon</i>	
A Survey of 'User Comfort' in Home Energy Management Systems in Smart Grid	36
<i>A. Mahmood, A. Ahmad, H.T. Javed, Z. Mehmood, Z.A. Khan, U. Qasim, and N. Javaid</i>	
Development of Virtual Palpation System for Dental Education	44
<i>Tatsushi Tokuyasu, Takaaki Nakayama, Kazuhiko Toshimitsu, Kazutoshi Okamura, and Kazunori Yoshiura</i>	
Implementation and Evaluation of a Small Size Omnidirectional Wheelchair	49
<i>Keita Matsuo, Yi Liu, Donald Elmazi, Leonard Barolli, and Kazunori Uchida</i>	

Session 3: Intelligent Computing

Integrating Wireless Cellular and Ad-Hoc Networks Using Fuzzy Logic Considering Node Mobility and Security	54
<i>Takaaki Inaba, Donald Elmazi, Yi Liu, Shinji Sakamoto, Leonard Barolli, and Kazunori Uchida</i>	
Enabling Large-Scale Biomolecular Conformation Search with Replica Exchange Statistical Temperature Molecular Dynamics (RESTMD) over HPC and Cloud Computing Resources	61
<i>Nayong Kim, Richard Platania, Wei Huang, Chris Knight, Tom Keyes, Seung-Jong Park, and Joohyun Kim</i>	
Application of Neural Networks for Intrusion Detection in Tor Networks	67
<i>Taro Ishitaki, Donald Elmazi, Yi Liu, Tetsuya Oda, Leonard Barolli, and Kazunori Uchida</i>	
An Improved Algorithm for Secure Outsourcing of Modular Exponentiations	73
<i>Jun Ye, Xiaofeng Chen, and Jianfeng Ma</i>	

The Third International Workshop on Collaborative Enterprise Systems (COLLABES-2015)

Session 1: Business Intelligence and Secure Systems

Improving Business by Migrating Applications to the Cloud Using Cloudstep	77
<i>Paulo R.M. Andrade, Renanh G. Araújo, Jose Cronemberger Filho, Tiago R. Pereira, Adriano B. Albuquerque, and Nabor C. Mendonca</i>	
Implementation of a Collaborative Document Processing in the Cloud	83
<i>Jiafei Wen, Xiaolong Wu, and Shui Lam</i>	
General Multi-key Searchable Encryption	89
<i>Jun Yang, Chuan Fu, Nan Shen, Zheli Liu, Chunfu Jia, and Jin Li</i>	

Quantum Key Distribution Protocol Using Quantum Fourier Transform	96
<i>Xiaoqing Tan, Siting Cheng, Jin Li, and Zhihong Feng</i>	

Session 2: Intelligent Data Processing

Implementation of a Software-Defined Storage Service with Heterogeneous Storage Technologies	102
<i>Chao-Tung Yang, Wei-Hsiang Lien, Yu-Chuan Shen, and Fang-Yi Leu</i>	
Optimize Auction Bandwidth in Content Centric Network with Provider Portal for Application	108
<i>Wisarat Suesuwan and Woraphon Lilakiatsakun</i>	
Experimental Study of Borehole Logs for Oil and Gas Exploration	117
<i>S. Imran and N. Khan</i>	

The Second International Workshop on Device Centric Cloud (DC2-2015)

Session 1: Device Centric Cloud I

Contextual User Interest Modeling Approaches for Personalized Services on Multiple Devices	123
<i>Zheng Hao, Deng Xiaotao, Yu Lei, Zhang Jie, Inchul Hwang, and Sunhee Youm</i>	
DNS Name Autoconfiguration for IoT Home Devices	131
<i>Sejun Lee, Jaehoon (Paul) Jeong, and Jungsoo Park</i>	
Will ToR Achieve Its Goals in the “Future Internet”? An Empirical Study of Using ToR with Cloud Computing	135
<i>Antonio Carnielli and Mahdi Aiash</i>	
SBUS: Smart e-Bus Battery Substitution Scheme in Vehicular Networks	141
<i>Jihyeok Seo, Jaehoon (Paul) Jeong, Hyounghick Kim, and Jung-Soo Park</i>	

Session 2: Device Centric Cloud II

Privacy Preserving Nearest Neighbor Search Based on Topologies in Cellular Networks	146
<i>Mahdi Daghmechi Firoozjaei, Jaegwan Yu, and Hyounghick Kim</i>	
A Framework for Security Services Based on Software-Defined Networking	150
<i>Jaehoon (Paul) Jeong, Jihyeok Seo, Geumhwan Cho, Hyounghick Kim, and Jung-Soo Park</i>	
Introducing a Hybrid Infrastructure and Information-Centric Approach for Secure Cloud Computing	154
<i>Mahdi Aiash, Robert Colson, and Mohammad Muneer Kallash</i>	
A Survey on Interfaces to Network Security Functions in Network Virtualization	160
<i>Hyunsu Jang, Jaehoon (Paul) Jeong, Hyounghick Kim, and Jung-Soo Park</i>	

The Second International Workshop on Engineering Energy Efficient WSNs (EEEWSN-2015)

Session 1: Applications of WSNs and Network Protocols

Packet Arrival Analysis in Wireless Sensor Networks	164
<i>Krishna Doddapaneni, Purav Shah, Enver Ever, Ali Tasiran, Fredrick A. Omondi, Leonardo Mostarda, and Orhan Gemikonakli</i>	
RUHEED-Rotated Unequal Clustering Algorithm for Wireless Sensor Networks	170
<i>Nueraili Aierken, Roberto Gagliardi, Leonardo Mostarda, and Zaib Ullah</i>	
A Framework for Energy Based Performability Models for Wireless Sensor Networks	175
<i>Fredrick A. Omondi, Purav Shah, Orhan Gemikonakli, and Enver Ever</i>	
Time Reversal-Based Transmissions with Distributed Power Allocation for Two-Tier Networks	181
<i>Vu Tran-Ha, Quang-Doanh Vu, and Een-Kee Hong</i>	
A Constrained ECA Language Supporting Formal Verification of WSNs	187
<i>Flavio Corradini, Rosario Culmone, Leonardo Mostarda, Luca Tesei, and Franco Raimondi</i>	
An ANT+ Protocol Based Health Care System	193
<i>Nadeem Qaisar Mehmood and Rosario Culmone</i>	

The Eleventh International Symposium on Frontiers of Information Systems and Network Applications (FINA-2015)

Session 1: Distributed Applications and Software Engineering

An Active Learning System Using Smartphone for Improving Students Learning Concentration	199
<i>Noriyasu Yamamoto</i>	
Technology Research of Tibetan Hot Topics Extraction	204
<i>Guixian Xu and Lirong Qiu</i>	
Word Sense Disambiguation Based on Feature Ranking Graph	209
<i>Yeqing Li and Xiaoyu Qiu</i>	
Named Entity Relation Extraction Based on Multiple Features	213
<i>Yeqing Li</i>	

Session 2: Energy-Aware Information Systems

Power Consumption and Computation Models of a Server with a Multi-core CPU and Experiments	217
<i>Hiroki Kataoka, Dilawaer Duolikun, Tomoya Enokido, and Makoto Takizawa</i>	
Implementation of Cloud Infrastructure Monitor Platform with Power Saving Method	223
<i>Chao-Tung Yang, Chih-Liang Chuang, Jung-Chung Liu, Chien-Chih Chen, and William C. Chu</i>	
Demand Response: From Classification to Optimization Techniques in Smart Grid	229
<i>Ashfaq Ahmad, Nadeem Javaid, Umar Qasim, and Zahoor Ali Khan</i>	
Implementation of Application Softwares for Reducing Power Consumption in Web Services	236
<i>Ken Nishimura and Kaoru Sugita</i>	
Secure Two-Party Computation in Social Cloud Based on Reputation	242
<i>Yilei Wang, Chao Guo, Tao Li, and Qiuliang Xu</i>	

Session 3: Scalable Computing Systems and Protocols

e-MinZu: A Software Service Architecture Based on Saas for Massive Data Source	246
<i>Weng Yu</i>	
The Research of Security of P2P Network File Sharing System	250
<i>Shaojing Li, Wanli Su, and Haoling Li</i>	
New Methods for Big Data Analysis in Images	255
<i>Petra Perner</i>	
Why Internet Protocols Need Incentives	261
<i>David Murray</i>	
A New Scheduling Algorithm for Real-Time Communication in LTE Networks	267
<i>Dardouri Samia and Bouallegue Ridha</i>	
Broadcast Protocols in Wireless Networks	272
<i>Kazuaki Kouno, Dilawear Duolikun, Tomoya Enokido, and Makoto Takizawa</i>	

Session 4: Security and Privacy

Performance Comparison Between RSA and Elliptic Curve Cryptography-Based QR Code Authentication	278
<i>Non Thiranant, Young Sil Lee, and Hoonjae Lee</i>	
Analysis of Researcher Co-authorship Network	283
<i>Jiana Meng and Jun Guo</i>	
Anonymous Identity-Based Encryption with Bounded Leakage Resilience	287
<i>Pengtao Liu, Chengyu Hu, Shanqing Guo, and Yilei Wang</i>	

The Electronic Voting in the Presence of Rational Voters	293
<i>Tao Li, Hao Yang, Yilei Wang, and Qiuliang Xu</i>	

The Eleventh International Workshop on Heterogeneous Wireless Networks (HWISE-2015)

Session 1: Wireless Sensor Networks

Extended Lifetime Based Elliptical Sink-Mobility in Depth Based Routing Protocol for UWSNs	297
<i>Naveed Ilyas, Nadeem Javaid, Zafar Iqbal, Muhammad Imran, Zahoor Ali Khan, Umar Qasim, and Muhammad Shoaib</i>	
Selection of Actor Nodes in Wireless Sensor and Actor Networks: A Fuzzy Based Method Considering Actor Mobility	304
<i>Donald Elmazi, Elis Kulla, Tetsuya Oda, Evjola Spaho, Leonard Barolli, and Kazunori Uchida</i>	
Circular Joint Sink Mobility Scheme for Wireless Sensor Networks	311
<i>S. Rahim, H. Rahim, R.D. Khan, M.Z. Siddiqi, M.A. Qureshi, U. Qasim, Z.A. Khan, S. Mahmood, and N. Javaid</i>	
DYN-NbC-JSM: Dynamic Joint Sink Mobility with Need-Based Clustering in WSNs	320
<i>Ayesha Hussain Khan, Nadeem Javaid, Muhammad Imran, Zahoor Ali Khan, Umar Qasim, and Noman Haider</i>	
Using Cellular Sensor Networks for Environment Protection	326
<i>Mimoza Durresi, Arjan Durresi, Leonard Barolli, and Kazunori Uchida</i>	

Session 2: Wireless Network Algorithms and Performance Analysis

An Analysis of Machine-Type-Communication on Human-Type-Communication over Wireless Communication Networks	332
<i>Parampreet Sidhu, Isaac Woungang, Glaucio H.S. Carvalho, Alagan Anpalagan, and Sanjay K. Dhurandher</i>	
Video Quality Transmission Evaluation over Next Generation Wireless Networks	338
<i>Hekma Chaari, Kais Mnif, and Lotfi Kamoun</i>	
Smartphone-Based Secure Access Control in Wireless Network Analysis	344
<i>Hyunho Kim, Young-Jin Kang, Ndibanje Bruce, Suhyun Park, and Hoonjae Lee</i>	
Performance Evaluation of a VANET Simulation System Using NS-3 and SUMO	348
<i>Vladi Kolici, Tetsuya Oda, Evjola Spaho, Leonard Barolli, Makoto Ikeda, and Kazunori Uchida</i>	
Using Combined Cellular Ad Hoc Communications for Smart Environments	354
<i>Mimoza Durresi, Arjan Durresi, Leonard Barolli, and Kazunori Uchida</i>	

Session 3: Wireless and Mobile Communication Systems

A Discrete Ray Tracing Method Based on Dijkstra Algorithm for 3D Propagation Environments	360
<i>Kazunori Uchida</i>	
Numerical Analysis of 1X4 Branch Waveguide in Two Dimensional Photonic Crystal Structure	366
<i>Hiroshi Maeda, Naoki Sakuma, Noriyuki Toyomasu, Ryoma Nishi, and Daichi Ogata</i>	
Investigation of Message Suppression Method Considering TCP in Vehicular-DTN	370
<i>Seiichiro Ishikawa, Taiki Honda, Makoto Ikeda, and Leonard Barolli</i>	
Analytical Downlink Effective SINR Evaluation in LTE Networks	376
<i>Marwane Ben Hcine and Ridha Bouallegue</i>	
Investigating Performance of Concurrent Virtual Wi-Fi Interfaces	382
<i>Kien Nguyen, Kentaro Ishizu, Homare Murakami, and Fumihide Kojima</i>	

The Third International Workshop on Informatics for Intelligent Context-Aware Enterprise Systems (ICAES-2015)

Session 1: Intelligent Context-Aware Systems and Applications

On Context and the Open World Assumption	387
<i>Philip Moore and Hai Van Pham</i>	
Handling Big Data Using NoSQL	393
<i>Jagdev Bhogal and Imran Choksi</i>	
An Ontological Analysis of the Role of Culture within Green IT	399
<i>Jagdev Bhogal and William Campbell</i>	
Models for an Intelligent Context-Aware Blended m-Learning System	405
<i>David Newell, Philip Davies, Ron Austin, Philip Moore, and Mak Sharma</i>	

The Third International Workshop on the Theories and Intricacies of Information Security Problems (INTRICATE-SEC 2015)

Session 1: Theories and Intricacies of Information Security Problems

Secure and Efficient Mobile Personal Health Data Sharing in Resource Constrained Environments	411
<i>Richard Ssembatya and Anne V.D.M. Kayem</i>	
Structural Controllability Analysis Via Embedding Power Dominating Set Approximation in ErdHős-Rényi Graphs	418
<i>Bader Alwasel and Stephen D. Wolthusen</i>	

A Usable and Secure Crime Reporting System for Technology Resource Constrained Context	424
<i>Aderonke Busayo Sakpere, Anne V.D.M. Kayem, and Thabo Ndlovu</i>	
Physical Layer Secrecy Performance of Multi-hop Decode-and-Forward Relay Networks with Multiple Eavesdroppers	430
<i>Duc-Dung Tran, Nguyen-Son Vo, Tan-Loc Vo, and Dac-Binh Ha</i>	
A New Efficient Request-Based Comparable Encryption Scheme	436
<i>Peng Chen, Jun Ye, and Xiaofeng Chen</i>	
Server Aided Ciphertext-Policy Attribute-Based Encryption	440
<i>Hao Wang, Bo Yang, and Yilei Wang</i>	

The Eighth International Workshop on Information Technology for Innovative Services (ITIS-2015)

Session 1: Innovative Services and Systems

Shape and Motion Features Approach for Activity Tracking and Recognition from Kinect Video Camera	445
<i>Ahmad Jalal, Shaharyar Kamal, and Daijin Kim</i>	
A Hybrid Type DTN Routing Method Using Delivery Predictability and Maximum Number of Replication	451
<i>Tomoaki Miyakawa and Akio Koyama</i>	
The Design of a Framework for Smart Appliances	457
<i>Minoru Uehara</i>	
Extension of Web-Based Software Development Environment	463
<i>Hideaki Yanagisawa</i>	
Parallel Architectures with Small World Network Model	467
<i>Hideki Mori, Minoru Uehara, and Katsuyoshi Matsumoto</i>	

The Seventh International Workshop on Disaster and Emergency Information Network Systems (IWDENS-2015)

Session 1: Disaster Information System

Feasibility Validation of WiFi Based Multihop Access Network for Disaster Recovery	473
<i>Quang Tran Minh and Shigeki Yamada</i>	
GICS: Group-Based Internet Connection Spreading Architecture for Disaster Recovery	478
<i>Xuan Thien Phan, Quang Tran Minh, Kien Nguen, Nam Thoai, and Shigeki Yamada</i>	
Proposal of the Fire Fighting Support System for the Volunteer Fire Company	484
<i>Kazuhiro Takahagi, Tomoyuki Ishida, Satoshi Noda, Akira Sakuraba, Noriki Uchida, and Yoshitaka Shibata</i>	

Application of DTN to the Vehicle Sensor Platform CoMoSE	490
<i>Go Hirakawa, Noriki Uchida, Yoshikazu Arai, and Yoshitaka Shibata</i>	
Implementation of High Presence Video Communication System for Multiple Users Using Tiled Display Environment	494
<i>Satoshi Noda, Yasuo Ebara, Tomoyuki Ishida, Koji Hashimoto, and Yoshitaka Shibata</i>	

Session 2: Disaster Information Network

M2M Emergency Help Alert Mobile Cloud Architecture	500
<i>Mohammad Aazam, Pham Phuoc Hung, and Eui-Nam Huh</i>	
Evaluation of Vehicle-to-Vehicle Communication with Delay Tolerant Networks for Safety Surveillance System	506
<i>Noriki Uchida, Go Hirakawa, Yoshikazu Arai, Kazuo Takahata, and Yoshitaka Shibata</i>	
Mobile Cloud Computing for Distributed Disaster Information System in Challenged Communication Environment	512
<i>Yosuke Kikuchi and Yoshitaka Shibata</i>	
A Road Condition Monitoring System Using Various Sensor Data in Challenged Communication Network Environment	518
<i>Kenta Ito, Go Hirakawa, Yoshikazu Arai, and Yoshitaka Shibata</i>	
Development of Autonomous Anti-Disaster Base Station by Combination of Satellite and Wireless Networks	524
<i>Hiroaki Yuze, Shinichi Nabeta, and Yuji Ito</i>	

The Eighth International Symposium on Mining and Web (MAW-2015)

Session 1: Information Retrieval and Tweet Sentiment Analysis

Increasing Trust in Elections via a Simple Receipt Algorithm	529
<i>Suzanne Mello-Stark and Edmund A. Lamagna</i>	
Overviewing the Knowledge of a Query Keyword by Clustering Viewpoints of Web Search Information Needs	535
<i>Ichiro Moriya, Yusuke Inoue, Takakazu Imada, Takehito Utsuro, Yasuhide Kawada, and Noriko Kando</i>	
Approximating Document Frequency for Self-Index Based Top-K Document Retrieval	541
<i>Tokinori Suzuki and Atsushi Fujii</i>	
The Use of POS Sequence for Analyzing Sentence Pattern in Twitter Sentiment Analysis	547
<i>Fajri Koto and Mirna Adriani</i>	
Discover Overlapping Topical Regions by Geo-Semantic Clustering of Tweets	552
<i>Yuta Taniguchi, Daiki Monzen, Lutfiana Sari Ariestien, and Daisuke Ikeda</i>	

Session 2: Data Mining and Data Structures

Exploring Technical Phrase Frames from Research Paper Titles	558
<i>Yuzana Win and Tomonari Masada</i>	
Mining User Interests through Internet Review Forum for Building Recommendation System	564
<i>Omar Abdillah and Mirna Adriani</i>	
SkillsRec: A Novel Semantic Analysis Driven Learner Skills Mining and Filtering Approach for Personal Learning Environments Based on Teacher Guidance	570
<i>Zaffar Ahmed Shaikh, Denis Gillet, and Shakeel Ahmed Khoja</i>	
Academic Performance Predictors	577
<i>Cheng Lei and Kin Fun Li</i>	
Applicability of Probabilistic Data Structures for Filtering Tasks in Data Loss Prevention Systems	582
<i>Lu Shi, Sergey Butakov, Dale Lindskog, Ron Ruhl, and Evgeny Storozhenko</i>	

The Third International Workshop on Network Management and Monitoring (NetMM-2015)

Session 1: Network Monitoring and Management

An Approach for Testing Data Intensive Systems: Application to a Banking CRM System	587
<i>Xiaoping Che, Pengyu Liu, Zhipeng Zhang, and Fangzhi Wen</i>	
DOCKEMU—A Network Emulation Tool	593
<i>Marco Antonio To, Marcos Cano, and Preng Biba</i>	
A Reliable and Scalable Classification-Based Hybrid IPS	599
<i>Oscar Rodas, Gerardo Morales, and Jose Alvarez</i>	
Process Mining for Trust Monitoring	605
<i>Jorge López, Stephane Maag, Cecilia Saint-Pierre, Javier Bustos, and Ana Cavalli</i>	

The Fifth International Workshop on Protocols and Applications with Multi-Homing Support (PAMS-2015)

Session 1: Multipath Transport Protocols

Maintaining and Monitoring the Infrastructure of the NORNET CORE Testbed for Multi-homed Systems	611
<i>Thomas Dreibholz, Jarle Bjørgeengen, and Jonas Werme</i>	
Multi-path TCP in Real-World Setups—An Evaluation in the NORNET CORE Testbed	617
<i>Thomas Dreibholz, Xing Zhou, and Fu Fa</i>	

Performance Evaluation of Experimental Setups in Home Energy Management Systems in Smart Grid	623
<i>W. Naeem, N. Javaid, Z.A. Khan, U. Qasim, A. Mahmood, Z. Mehmood, A. Ahmad, F. Ali, and W. Sarwar</i>	
Device-to-Device Service Selection Framework in Cloud Radio Access Network	633
<i>Yuansheng Luo, Kun Yang, Qiang Tang, Jianming Zhang, and Shi Qiu</i>	

The Third International Workshop on Pervasive Internet of Things and Smart Cities (PITSaC-2015)

Session 1: Internet of Things

Smart Eco-Urban Cities Ubiquitous Public Park	638
<i>Nizar Boussarsar, Youssef Kamoun, Mouna Ketatni, Anis Benhajji, and Seifallah Jemal</i>	
A Publish-Subscribe Approach to IoT Integration: The Smart Office Use Case	644
<i>Alex C. Olivieri, Gianluca Rizzo, and Francois Morard</i>	
Group-Based Uplink Scheduling for Machine-Type Communications in LTE-Advanced Networks	652
<i>Tsung-Hui Chuang, Meng-Hsun Tsai, and Chun-Yi Chuang</i>	
Proof-of-Concept: Infrared Transmission Using Smart Phone Cameras	658
<i>René Romann</i>	
Automatic Generation of Social Relationships between Internet of Things in Smart Home Using SDN-Based Home Cloud	662
<i>Younggi Kim and Younghee Lee</i>	
Internet of Things for Cultural Heritage of Smart Cities and Smart Regions	668
<i>Antonio J. Jara, Yunchuan Sun, Houbing Song, Rongfang Bie, Dominique Genooud, and Yann Bocchi</i>	

Session 2: Security in the Internet of Things

Managing Context Information for Adaptive Security in IoT Environments	676
<i>José L. Hernández Ramos, Jorge Bernal Bernabe, and Antonio F. Skarmeta</i>	
LESS: Lightweight Establishment of Secure Session: A Cross-Layer Approach Using CoAP and DTLS-PSK Channel Encryption	682
<i>Abhijan Bhattacharyya, Tulika Bose, Soma Bandyopadhyay, Arijit Ukil, and Arpan Pal</i>	
SDN Based Architecture for IoT and Improvement of the Security	688
<i>Olivier Flauzac, Carlos González, Abdelhak Hachani, and Florent Nolot</i>	
EAP for IoT: More Efficient Transport of Authentication Data—TEPANOM Case Study	694
<i>Marcin Piotr Pawlowski, Antonio J. Jara, and Maciej J. Ogorzalek</i>	

The Ninth International Workshop on Telecommunication Networking, Applications and Systems (TeNAS-2015)

Session 1: Distributed and Parallel Applications

A Case Study and Design of Transformation Architecture in BSS	700
<i>Teh-Sheng Huang, Chun-Yen Wang, Tsung-Ching Lin, and Jeu-Yih Jeng</i>	
An Anomaly Detection by Whitening HOSF	706
<i>Chun-Hui Wang, Yue Pan, and Shwu-Huey Yen</i>	
Video Streaming: H.264 and the Internet of Things	711
<i>R. Pereira and E. Pereira</i>	

Session 2: Networking and Communications Technologies and Performance

Multipath Transmission Model and Its Route Selection Policy Considering Packet Re-sequencing Buffers Availability	715
<i>Yuta Yoshinaga, Masayoshi Shimamura, and Katsuyoshi Iida</i>	
Road-Oriented Geographic Routing Protocol for Urban Vehicular Ad Hoc Networks	721
<i>Ryosuke Akamatsu, Keiji Obara, and Hiroshi Shigeno</i>	
Equalization for the FDM System Using Mach-Zehnder Filters	727
<i>Yuki Fukushima, Isamu Wakabayashi, and Takayuki Kawahara</i>	
A Visible Light Communication Link Protection Mechanism for Smart Factory	733
<i>Shih-Hao Chang</i>	
Author Index	738