2012 18th Asia-Pacific Conference on Communications

(APCC 2012)

Jeju, South Korea
15 – 17 October 2012
Oral Sessions

October 15 (Monday)

08:30-10:10

Session I-1: Cooperative Relay I
Chair: Young-Chai Ko, Korea University, Korea

[I-1.1] Channel Covariance Information Based Transceiver Design for AF MIMO Relay Systems with Direct Link
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[I-1.2] A Relay Selection Scheme Using Q-Learning Algorithm in Cooperative Wireless Communications
Honggyu Jung (Soongsil University, Korea); Kwangyu Kim (Soongsil University, Korea); Junsu Kim (Korea Polytechnic University, Korea); Oh-Soon Shin (Soongsil University, Korea); Yoan Shin (Soongsil University, Korea)

[I-1.3] Confidence Interval Constraint for Dual-Hop Semi-Blind AF Relaying System
John F. An (National Taiwan Ocean University, Taiwan)

[I-1.4] Collaborative Relay Beamforming Based on the Worst-case SINR for Multiuser in Cellular Systems
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[I-1.5] Reinforcing Wireless Links Using Controllable Mobility of Robotic Relays
Duc Van Le (University of Ulsan, Korea); Hoon Lawrence Oh (University of Ulsan, Korea); Seokhoon Yoon (University of Ulsan, Korea)

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Chair: Jaewoo So, Sogang University, Korea

Lei Yang (Jeju National University, Korea); Soo-Duk Seo (Innertron Inc., Korea); Hak-Bae Cho (Innertron Inc., Korea); Doo-Young Yang (Jeju National University, Korea)

[I-2.2] Modified E-shaped Antenna having Flat-top Radiation Pattern
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[I-2.3] Design of 2.45 GHz Sierpinski Fractal Based Miniaturized Microstrip Patch Antenna
Sika Shrestha (Chosun University, Korea); Jung-Jin Park (Chosun University, Korea); Sun-Kuk Noh (Chosun University, Korea); Dong-You Choi (Chosun University, Korea)

[I-2.4] Miniaturized Microstrip Window Hairpin Resonator with T-Feeder Coupling Lines
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[I-3.1] Holistic Network Selection for Wireless Mobile Nodes in a 4G Environment
Vasuky Mohanan (University Sains Malaysia, Malaysia); Rahmat Budiarto (School of Computer Sciences, Malaysia); Wan Mohd Nazmee Wan Zainon (University Sains Malaysia, Malaysia)

[I-3.2] Transmission Delay Analysis of HARQ-ARQ Interaction Mechanisms for IEEE 802.16m Systems
Seungjoo Ham (Sogang University, Korea); Jaewoo So (Sogang University, Korea); Daeyoung Hong (Sogang University, Korea)

[I-3.3] Handover Technique Between Femtocells in LTE Network Using Collaborative Approach
Modar Shbat (Kyungpook National University, Korea); Vyacheslav Tuzlovsk (Kyungpook National University, Korea)

[I-3.4] A Novel Dynamic Mobility Management Scheme in LISP Architecture
Yang Li (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Zhijun Zhao (Chinese Academy of Sciences, P.R. China); Haibo Li (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Hui Tang (IOA, Chinese Academy of Sciences, USA); Song Ci (University of Nebraska-Lincoln, USA)

[I-3.5] Performance Analysis of CSMA Multi-hop Wireless Networks in Nonsaturated Conditions
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[I-4.1] A Time Synchronization Algorithm Based on Bimodal Frequency Estimation
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[I-4.2] Low-Complexity Synchronization Method for Symbol and Frame Timing in LTE Systems
Xin Wang (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China); Xiaolin Hou (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China); Atsushi Harada (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China)

[I-4.3] An Efficient Feedback Architecture Design for Three-user MIMO Interference Channels
Hyunsu Cha (Yonsei University, Korea); Jin Young Jung (Yonsei University, Korea); Sungwoo Cho (Yonsei University, Korea); Dong Ku Kim (Yonsei University, Korea)
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I-5.2 Effect of Dynamic Control of Fragrance Output Timing in Networked Virtual Environment
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Toshihiro Nunome (Nagoya Institute of Technology, Japan); Shuji Tasaka (Nagoya Institute of Technology, Japan)

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October 15 (Monday)

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Session II-1: Cooperative Relay II

Chair: KyungHi Chang, Inha University, Korea

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II-1.4 A Window Based Channel Allocation Algorithm for Two-way AF Relay OFDMA Systems
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II-2.2 Efficient Coordinated Multi-cell Processing (CoMP) Scheme Selection and Radio Resource Management
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Chair: David E Murray, Murdoch University, Australia

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Sha Yuan (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Tao Lin (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Guoqiang Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Yang Li (Institute of
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Chair: Young Yong Kim, Yonsei University, Korea

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Seiichiro Okamoto (Okayama University, Japan); Shigeru Tomisato (Okayama University, Japan); Hiromasa Fujii (NTT DOCOMO, Japan); Masaharu Hata (Okayama University, Japan); Shunji Miura (NTT DOCOMO, Japan); Hidetoshi Kayama (NTT DOCOMO Beijing Communications Lab., P.R. China)

[III-2.3] TDMA-based Cooperative Sensing using SDR Platform for Cognitive Radio
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Nordin Bin Ramli (MIMOS Berhad, Malaysia); Hafizal Mohamad (MIMOS Berhad, Malaysia); Mahamod Ismail (University Kebangsaan Malaysia, Malaysia); Anizamariah Daud (University Kebangsaan Malaysia, Malaysia)

[III-2.5] Complexity Analysis of Eigenvalue based Spectrum Sensing Techniques in Cognitive Radio Networks
Anmar Ikrar (National University of Science & Technology (NUST), Pakistan); Adnan Rashdi (NUST, Pakistan)

Session III-3: Sensor and Mesh Networks
Chair: Shigeki Shiozawa, Kanagawa Institute of Technology, Japan

Takuto Kuroiwa (The University of Tokyo, Japan); Makoto Suzuki (The University of Tokyo, Japan); Shunsuke Saruwatari (The University of Tokyo, Japan); Tomonori Nagayama (University of Tokyo, Japan); Hiroyuki Morikawa (The University of Tokyo, Japan)

Yasutaka Yamashita (The University of Tokyo, Japan)

Sakiko Kawai (Tokyo Metropolitan University, Japan); Takuya Asaka (Tokyo Metropolitan University, Japan)

[III-3.3] Interference Estimation for Channel Selection in Wireless Mesh Networks
Sungchang Choi (KAIST, Korea); Yonggyu Kim (KAIST, Korea); Joongsoo Ma (KAIST, Korea)

Sung Hun Kim (ETRI, Korea); Myung-In Ji (ETRI, Korea); Joong Soo Ma (KAIST, Korea)

[III-3.5] Capacity Analysis for Heterogeneous Wireless Mesh Networks with Queueing Network Models
Sa Fong Chien (MIMOS Berhad, Malaysia); Kae Hsiang Kwong (MIMOS Berhad, Malaysia); Derek Holby (MIMOS Berhad, Malaysia)

Session III-4: Channel Modeling I
Chair: Hyun Kyu Chung, ETRI, Korea

[III-4.1] An Autocorrelation Model for Shadow Fading in Rural Macro Environments
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[III-4.2] Empirical Models of Cross-Correlation for Small-Scale Fading in Co-existing Channels
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[III-4.3] Secrecy Capacity of Correlated Rayleigh Fading Channels
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Ngoc Dang (Posts and Telecommunications Institute of Technology, Vietnam); Hien Pham (Posts and Telecommunications Institute of Technology, Vietnam); Anh T. Pham (The University of Aizu, Japan)

Day A. Luong (The University of Aizu, Japan); Cong Thang Truong (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)
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Chair: Eiji Oki, University of Electro-Communications, Japan

[III-5.1] Wavelength router for energy efficient photonic aggregation with large-scale λ-tunable WDM/TDM-PON

Yumiko Senoo (NTT Access Network Service Systems Laboratories, Japan); Shin Kaneko (NTT Access Network Service Systems Laboratories, Japan); Shunji Kimura (NTT Access Network Service Systems Laboratories, Japan); Naoto Yoshimoto (NTT, Japan)

[III-5.2] Traffic Pattern Based Connection-Level Active Rerouting Algorithm in All-Optical WDM Networks

Sheng-Wei Wang (Fo Guang University, Taiwan); Yi-Chiu Chen (Fo Guang University, Taiwan)

[III-5.3] Load-Balanced Shortest-Path-Based Routing with Even Traffic Splitting

Masashi Honma (The University of Electro-Communications, Japan); Shunichi Tsunoda (The University of Electro-Communications, Japan); Eiji Oki (The University of Electro-Communications, Japan)

[III-5.4] Simulation Design for AOPR WDM/TDM PON System Architecture using WDM to OTDM XGM

Mohd Shahril Salleh (Telekom Malaysia R&D Sdn Bhd, Malaysia); Zulhedry Abd Manaf (TM R&D Sdn Bhd, Malaysia); Khairina Khairi (Next Generation Access Lab, Malaysia); Muhammad Zamzuri Abdul Kadir (Telekom Research & Development, Malaysia); Zulkalnain Mohd Yusof (TM Research & Development, Malaysia); Abu Salmah Supa'at (University Technology Malaysia, Malaysia); Sevia Mahdaliza Idrus (Photonics Technology Centre, Malaysia)


Monir Hossen (University of Yamanashi, Japan); Masanori Hanawa (University of Yamanashi, Japan)

**October 16 (Tuesday)**

15:50-17:30

**Session IV-1: MIMO II**

Chair: Yongsoo Cho, Chung-Ang University, Korea

[IV-1.1] An Efficient Iterative ICI cancellation Method for Cooperative STBC-OFDM System

Kyoung Hoon Won (Sungkyunkwan University, Korea); Hyung-Jin Choi (SungKyunKwan University, Korea); Dongjun Lee (Sungkyunkwan University, Korea)

[IV-1.2] Distributed Polite Water-filling for Optimization of MIMO B-MAC Interference Networks

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[IV-1.3] Impact of Spatial Correlation towards the Performance of MIMO Downlink Transmissions

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[IV-1.4] Capacity Optimization for Short-Range LoS 3X2 MIMO Channels

Rui Xu (Southeast University, P.R. China); Haiiming Wang (Southeast University, P.R. China); Mingkai Tang (Southeast University, P.R. China); Hong Wei (Southeast University, P.R. China)

[IV-1.5] Efficient and low complexity STBC-OFDM Scheme over Fading Channel

Mustafa Dh. Hassib (University Kebangsaan Malaysia, Malaysia); Mandep Singh (University Kebangsaan Malaysia, Malaysia); Mahamod Ismail (University Kebangsaan Malaysia, Malaysia); Rosdiadee Nordin (University Kebangsaan Malaysia, Malaysia)

**Session IV-2: Compressed Sensing**

Chair: Jin Young Kim, Kwangwoon University, Korea

[IV-2.1] 1-bit Compressed Sensing with Edge Detection for Compressed Radio Wave Data Transfer

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[IV-2.2] Impulse response UWB time-delay estimation with low speed ADC using compressive sensing

Gang Yang (Communication University of China, P.R. China); Lingwen Zhang (Beijing Jiaotong University, P.R. China)

[IV-2.3] Sparse-Matrix-Based Compressed Sensing for Spectrum Sensing in Flexible Wireless

Doohwan Lee (The University of Tokyo, Japan); Yoshiyuki Kabashima (Tokyo Institute of Technology, Japan); Koujir Takeda (Tokyo Institute of Technology, Japan); Takayuki Yamada (NTT, Japan); Kazunori Akabane (NTT Network Innovation Laboratories, Japan); Kazuhiro Uehara (NTT, Japan)

[IV-2.4] Lattice Sphere Multiuser Detection via Compressive Sensing

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Chair: Su Fong Chien, MIMOS, Malaysia

WeiHua Wu (Xidian University, P.R. China); Qinghai Yang (Xidian University, P.R. China); FengLin Fu (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

[IV-3.2] Cooperative MAC Protocol with Distributed Relay Selection Using Group-Based Probabilistic Contention
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[IV-3.3] Neighbor Discovery using Directional Antennae for Connectivity of Wireless Networks
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[IV-3.4] Flashcast
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Session IV-4: Channel Modeling II
Chair: Heung-Gyoon Ryu, Chungbuk National University, Korea

[IV-4.1] A Parallel Digital Hardware Generator of White Gaussian Noise Stressing on Crest Factor
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[IV-4.2] A Characteristics of Ionosphere D-Region Using Tweek Radio Atmospheres at Malaysia
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[IV-4.3] Investigation of Multi-link Channel Characteristics Using Measurements At 3.7 GHz
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[IV-4.5] Multilayered Cylindrical Human Arm Model for Impedance Analysis in Human Body Communication
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Session IV-5: Green Optical Networks
Chair: Song Chong, KAIST, Korea

[IV-5.1] Location awareness using Angle-of-arrival based circular-PD-array for Visible Light Communication
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[IV-5.2] ONU Sleep Control by HGW Considering Users’ Traffic Distribution for Energy-aware Access Networks
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[IV-5.3] Energy and Cost Efficient Logical Topology in Optical Mixed-Line-Rate Networks
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[IV-5.4] Analysis of the Next Generation Green Optical Access Networks
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[IV-5.5] Intelligent Power Saving Technique for Mobile Devices with Calogero-Moser System
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October 17 (Wednesday)

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Session V-1: Signal Processing
Chair: Dookwan Lee, University of Tokyo, Japan

[V-1.1] Environment Detection with Kalman Filter for CFAR Detectors
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[V-1.3] Audio Watermarking in Transform Domain Based on Singular Value Decomposition and Quantization
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[V-1.4] An Accident Detection System on Highway through CCTV with Calogero-Moser System
In Jung Lee (Hoseo University, Korea)
Nonlinear Mitigation Loop of a Novel Feedforward Laser Transmitter for Radio Over Fiber Link
Suryani Alifah (University Technology Malaysia, Malaysia); Sevia Mahdaliza Idrus (Photonics Technology Centre, Malaysia); Yun Sheng Neo (University Technology Malaysia, Malaysia); Norazan Kassim (University Technology Malaysia, Malaysia)

Characterization of DSB-OCS technique for 40GHz radio over fibre system
Syamsuri Yaakob, Ir. (Telekom Research & Development, Malaysia); Norhakimah Md Samsuri (TM Research & Development Sdn Bhd, Malaysia); Nazif Farid (TM Research and Development, Malaysia); Romil Mohamad (TM Research & Development, Malaysia); Amiza Rasm (TM Research & Development Sdn Bhd, Malaysia); Muhammad Zamzuri Abdul Kadir (Telekom Research & Development, Malaysia); Sevia Mahdaliza Idrus (Photonics Technology Centre, Malaysia); Shu-Hao Fan (Georgia Institute of Technology, Malaysia)

Impact of Linear Misalignment on a Spatial OFDM Based Pixelated System
Md. Rubaiyat Mondal (Monash University, Australia); Jean Armstrong (Monash University, Australia)

October 17 (Wednesday)

10:30-12:10
Session VI-1: OFDM(A)
Chair: In Jung Lee, Hoseo University, Korea

Feedback Reduction in OFDMA Systems by Scheduling Probability
Soomin Ko (Seoul National University, Korea); Jungsu Lee (School of Electrical Engineering, Seoul National University, Korea); Byeong Gi Lee (Seoul National University, Korea); Daeyoung Park (Inha University, Korea)

PPR Reduction using PTS with Low Computational Complexity in Coherent Optical OFDM Systems
Dung Huynh (Gwangju Institute of Science and Technology, Korea); Hakjeon Bang (Gwangju Institute of Science and Technology (GIST), Korea); Chang-Soo Park (Gwangju Institute of Science and Technology, Singapore); Seung Il Myong (ETRI, Japan)

MIMO-OFDM based Indoor Power Line Communication using Spatial Diversity Coding and MRC Schemes
Jeonghwa Yoo (The Catholic University of Korea, Korea); Sangho Choe (The Catholic University of Korea, Korea)

Integer Frequency Offset Recovery in OFDM Systems
Hamed Abdzadeh-Ziabarti (Urmia University, Iran); Mahrokh G. Shayanfesh (Urmia University, Iran)

A Novel OFDM Frame Structure for Ultra Large-Zone Cell Deployments
Atsushi Harada (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China); Xin Wang (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China); Xiaolin Hou (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China); Hirohito Suda (NTT DOCOMO, Japan)

Session VI-2: WLAN and WPAN
Chair: Sangheon Pack, Korea University, Korea

Performance Comparison of Medium Access Control Schemes for IEEE 802.11
Amran Kabir (BRAC University, Bangladesh); Mahjabeen Alam (BRAC University, Bangladesh); Lubna Ahmed (BRAC University, Bangladesh); Sanjida Sabah (BRAC University, Bangladesh); Hasan S Ferdous (Dhaka University, Bangladesh)

Adaptive Two-Level Frame Aggregation in IEEE 802.11n WLAN
Youngsoo Kim (Samsung Electronics, Korea); Edwin Monroy (Seoul National University, Korea); Okhwan Lee (Seoul National University, Korea); Kyung-Joon Park (DGIST, Korea); Sunghyun Choi (Seoul National University, Korea)

The Precise Underground Localization Method Based on WIFI Network
Yinjing Guo (Shandong University of Science & Technology, P.R. China)

A System Design for IEEE802.11ad
Sung Woo Choi (ETRI, Korea); Junhyeong Kim (KAIST, Korea); Ilgyu Kim (ETRI, Korea)

Effect of Channel Sensing on CSMA/CA in IEEE 802.15.4 Networks
Jin-Seok Han (Seoul National University, Korea); Hyung-Sim Kim (Seoul National University, Korea); Tae-Hoon Kim (Seoul National University, Korea); Yong-Hwan Lee (Seoul National University, Korea)

Session VI-3: Switching and Routing
Chair: Yang Li, Chinese Academy of Sciences, China

A Dynamic Indirect IP Lookup based on Prefix Relationships
Yu-Chen Kuo (Soochow University, Taiwan); Chih-Cheng Li (Soochow University, Taiwan)

The Philosophy of Solving Flow Interference in Multi-stage Switch
Yapeng Tian (Tsinghua University, P.R. China); Xiaoping Zhang (Tsinghua University, P.R. China); Dahu Li (Tsinghua University, P.R. China); Chen Zhou (Tsinghua University, P.R. China)

Modeling Switching Networks with Multi-service Sources and Point-to-Group Selection
Mariusz Glabowski (Poznan University of Technology, Poland); Maciej Sobieraj (Poznan University of Technology, Poland); Maciej Stasiak (Poznan University of Technology, Poland)

Evaluating Tradeoff between PDP and k-FDP Algorithms under Sharing Reliable Links
Ruchaneeya Leepila (The University of Electro-Communications, Japan)
[VI-3.5] Preventive Start-Time Optimization of OSPF Link Weights against Link Failure for Hose Model
Ravindra Sandaruwan Ranaweera (The University of Electro-Communications, Japan); Mohammad Kamrul Islam (The University of Electro Communications, Japan); Eiji Oki (The University of Electro-Communications, Japan)

Session VI-4: Short Range Communication
Chair: Sungbin Im, Soongsil University, Korea

[VI-4.1] Multi-Coded Variable PPM with Level Cutting for High Data Rate Visible Light Communications
Jong-Ho Yoo (Yeungnam University, Korea); Sung-yoon Jung (Yeungnam University, Korea)

[VI-4.2] A SNR Analysis of the Visible Light channel Environment for Visible Light Communication
Seok-Ju Lee (Yeungnam University, Korea); Sung-yoon Jung (Yeungnam University, Korea)

[VI-4.3] Improved OTRA based Receiver Section in Wireless Laser Communication link
Mohit Agrawal (Delhi Technological University (Formerly Delhi College of Engineering), India); Kaushalendra Trivedi (Delhi Technological University (Formerly Delhi College of Engineering), India); Aditya Singh (Delhi Technological University, India); Vishnu Srivastava (Delhi Technological University, India)

[VI-4.4] Secure Cluster Formation Using Two-hop Conformity Check and Broadcast Communication
Gicheol Wang (KAIST, Korea); Seunghae Kim (KISTI, Chonbuk National University, Korea); Byungyun Park (KAIST, Korea); GiHwan Cho (Chonbuk National University, Korea)

[VI-4.5] Performance Improvement of Localization for Active Sonars
Eun-jeong Jang (Kyungpook National University, Korea); Dong Seog Han (Kyungpook National University, Korea)

Session VI-5: Network Information Security
Chair: Sunghyun Choi, Seoul National University, Korea

[VI-5.1] Preserving Privacy with Anonymity for Customer Collaboration in Smart Grid
Kang Taeyoon (Korea University, Korea); Hwangnam Kim (Korea University, Korea)

[VI-5.2] Trusted Service Access with Dynamic Security Infrastructure Configuration
Ronald Marx (Fraunhofer SIT, Germany); Nicolai Kuntze (Fraunhofer SIT, Germany); Carsten Rudolph (Fraunhofer SIT, Germany); Ingo Bente (Fachhochschule Hannover, Germany); Joerg Vieweg (Fachhochschule Hannover, Germany)

[VI-5.3] A Method for Fast Switching of Redundant Networks between Data Centers
Tomoko Inoue (NTT Corporation, Japan); Toshihara Kishi (NTT Corporation, Japan); Yukio Nagafuchi (NTT Corporation, Japan); Hideo Kitazume (NTT Corporation, Japan)

[VI-5.4] A Measurement Study of AS Paths: Methods and Tools
Mohammad Masoud (Huazhong University of Science and Technology, P.R. China); Xiaojun Hei (Huazhong University of Science and Technology, P.R. China); Wenqing Cheng (Huazhong University of Science and Technology, P.R. China)

[VI-5.5] A Unique-Pattern based Pre-Filtering Method for Rule Matching of Network Security
Nen-Fu Huang (National Tsing Hua University, Taiwan); Hsien-Wei Hung (National Tsing Hua University, Taiwan); Tsai Wen-Yen (National Tsing Hua University, Taiwan)
**Poster Sessions**

**October 17 (Wednesday)**

08:30-10:10

**Poster 1:**
Chair: Do-Hyun Kim, Jeju National University, Korea

[P-1.1] A Study on Network Reliability Evaluation for Developing Countries
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Bobby Chandra (Tokyo City University Graduate School, Japan); Tatsuya Koizumi (Tokyo City University, Japan); Masahiro Hayashi (Tokyo City University, Japan); Hisao Yamamoto (Tokyo City University, Japan)

[P-1.2] Vertex Coloring Based Distributed Link Scheduling for Wireless Sensor Networks
---
Xiaoyang Li (Shandong University at Weihai, P.R. China); Enqing Dong (Shandong University at Weihai, P.R. China)

[P-1.3] Shared-Tree Selection Method for Aggregated Multicast
---
Yusuke Sekine (Nihon University, Japan); Taiju Mikoshi (Nihon University, Japan); Toyofumi Takenaka (Nihon University, College of Engineering, Japan)

[P-1.4] A Static and Dynamic Visual Debugger for Malware Analysis
---
Lee Yee Chan (University Kebangsaan Malaysia, Malaysia); Ling Chuan Lee (University Kebangsaan Malaysia, Malaysia); Mahamod Ismail (University Kebangsaan Malaysia, Malaysia); Nazharuddin Zainal (University Kebangsaan Malaysia, Malaysia)

[P-1.5] Design and Development of a New Scanning Core Engine for Malware Detection
---
Ling Chuan Lee (University Kebangsaan Malaysia, Malaysia); Lee Yee Chan (University Kebangsaan Malaysia, Malaysia); Mahamod Ismail (University Kebangsaan Malaysia, Malaysia); Kasmiran Jumari (University Kebangsaan Malaysia, Malaysia)

[P-1.6] Bandwidth Allocation Design to Guarantee QoS of Differentiated Services for a novel OFDMA-PON
---
Ahhua Shao (University of Electronic Science and Technology of China, P.R. China); Qing Dou (University of Electronic Science and Technology of China, P.R. China); Yonghua Xiao (University of Electronic Science and Technology of China, P.R. China); Peisi Chu (University of Electronic Science and Technology of China, P.R. China); Kang Zhu (University of Electronic Science and Technology of China, P.R. China); Yunfeng Peng (University of Science and Technology Beijing, P.R. China); Keping Long (University of Science and Technology Beijing, P.R. China)

[P-1.7] The Other Side of Flat Pricing in Wireless Internet
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Hoon Lee (Changwon National University, Korea)

[P-1.8] DHT-based Identifier-Locator Mapping Management for Mobile Oriented Future Internet
---
Hyung-Woo Kang (Kyungpook National University, Korea); Ji-In Kim (Kyungpook National University, Korea); Seok-Joo Koh (Kyungpook National University, Korea)

[P-1.9] GTS Allocation for Emergency Data in Low-Rate WPAN
---
Xiao Ying Lei (University, Korea); Yong-Hoon Choi (Kwangwoon University, Korea); Seung Hyong Rhee (Kwangwoon University, Korea)

[P-1.10] Walking Support by Dangerous Obstacles Notification Using an Electronic White Cane
---
Yoshihiro Nitsu (Shibaura Institute of Technology, Japan); Saki Itoh (Shibaura Institute of Technology, Japan); Shinya Kitahara (Shibaura Institute of Technology, Japan); Hiroya Minami (NTT, Japan); Michio Shimomura (NTT, Japan)

[P-1.11] Adaptive Delta-Causality Control with Prediction in Networked Real-Time Game Using Haptic Media
---
Yui Kusunose (Nagoya Institute of Technology, Japan); Yutaka Ishibashi (Nagoya Institute of Technology, Japan); Norishige Fukushina (Nagoya Institute of Technology, Japan); Shinji Sugawara (Nagoya Institute of Technology, Japan)

[P-1.12] A Solution to Transmission Halting In a New Flow Control Method TCP-fox
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Takumi Shinkai (Okayama University, Japan); Hui Wang (Henan University of Science and Technology, P.R. China); Hiroyuki Ishihara (Okayama University, Japan); Yuichi Nishida (Okayama University, Japan); Yukinobu Fukushina (Okayama University, Japan); Tokumi Yokohira (Okayama University, Japan)

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Furqan Hameed Khan (AJOU University, Korea); Young-June Choi (Ajou University, Korea)

[P-1.14] Analysis of Techniques for Accelerating IPTV Channel Change
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Joonhee Yoon (Hanyang University, Korea); Sung-kwon Park (Hanyang University, Korea); Byoungjin Ahn (Korea CableLabs, Korea)

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Qiang Dou (University of Electronic Science and Technology of China, P.R. China); Ahhua Shao (University of Electronic Science and Technology of China, P.R. China); Kang Zhu (University of Electronic Science and Technology of China, P.R. China); Peisi Chu (University of Electronic Science and Technology of China, P.R. China); Yonghua Xiao (University of Electronic Science and Technology of China, P.R. China); Yunfeng Peng (University of Science and Technology Beijing, P.R. China); Keping Long (University of Science and Technology Beijing, P.R. China)

[P-1.16] Prioritized Network-based Vertical Handover Decision in Multi-Access Wireless Networks
---
Abubakar Miyin (University Kebangsaan Malaysia (UKM), Malaysia); Mahamod Ismail (University Kebangsaan Malaysia, Malaysia); Rosdiadee Nordin (University Kebangsaan Malaysia, Malaysia)

[P-1.17] A Rate-Aware Power Saving Mechanism in Multi-Rate Wireless LANs
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Seongman Min (Korea University, Korea); Hyunhee Park (Korea University, Korea); Sangheon Pack (Korea University, Korea)
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Juinn-Horng Deng (Yuan-Ze University, Taiwan)

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Hanah Kim (Yonsei University, Korea); BongHwan Oh (Yonsei university, Korea); Jaiyong Lee (Yonsei University, Korea)

Ye Liu (Southeast University, P.R. China)

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Haesik Kim (VTT Technical Research Centre of Finland, Finland); Aarne Mämmelä (VTT Technical Research Centre of Finland, Finland)

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Łukasz Maksymiuk (Warsaw University of Technology, Poland); Jerzy Siuszda (Warsaw University of Technology, Poland)

[P-2.3] Radio Frequency Fingerprinting based on the Constellation Errors  900
Huang Yuanling (Science and Technology on Blind Signal Processing Laboratory, P.R. China); Zheng Hui (Science and Technology on Blind Signal Processing Laboratory, P.R. China)

[P-2.4] Convergence of Gaussian Belief Propagation Over a Ring-type Graphical Model  906
Seokhwan Yoon (Dankook University, Korea)

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Chie Dou (National Yunlin University of Science and Technology, Taiwan)

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[P-2.7] On Boundary Conditions for Recursive Spline Filtering  918
Nikolay Shlyakhov (Samsung Electronics, Korea)

[P-2.8] Optimal User Selection Algorithm for Opportunistic Space Division Multiple Access Systems  922
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[P-2.9] Sub-carrier Multiplexing-based MIMO-OFDM system for Visible Light Communication  924
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Kai Zhao (Shandong University, P.R. China); Haixia Zhang (Shandong University, P.R. China); Dongfeng Yuan (Shandong University, P.R. China)

Chuan Wang (National Central University, Taiwan); Pei-Yun Tsai (National Central University, Taiwan)

[P-2.12] Combining Interference Alignment and Alamouti
Codes for Quasi-Static MIMO X Channel
Dong-sup Jin (Seoul National University, Korea); Jaehong Kim (Seoul National University, Korea); Jong-Seon No (Seoul National University, Korea)

Xin Su (Inha University, Korea); Bing Hui (Inha University, Korea); KyungHi Chang (Inha University, Korea)

[P-2.14] Hybrid Utilisation of Wi-Fi for Sensor Integration in a Reconfigurable Infrastructure Management
Karuppiah Valuthi Sathan Ramiah (Prince Mohammad Bin Fahd University, Saudi Arabia); T R Gopalakrishnan Nair (Prince Mohammad Bin Fahd University, Saudi Arabia)

[P-2.15] Improved Channel Estimation with Partial Sparse Constraint for AF Cooperative Communication Systems
Guan Gui (Tohoku University, Japan); Wei Peng (Tohoku University, Japan); Fumiyuki Adachi (Tohoku University, Japan)

Yaser Faeidfar (University Science Malaysia, Malaysia); Mohd Fadzli Mohd Salleh (University Sains Malaysia, Malaysia)

[P-2.17] Iterative Pre-Whitening Projection Statistics for Non-Homogeneous Clutters with Multiple Targets
Hyuck Park (Samsung Thales, Korea); Jin Whan Kang (Sungkyunkwan University, Korea); Sang-Hyo Kim (Sungkyunkwan University, Korea)

[P-2.18] Decoupling Numerical Performance Evaluation of Microwave Antennas Feeding Network
Ardavan Rahimian (University of Birmingham, United Kingdom); Farhad Mehran (University of Birmingham, United Kingdom)

[P-2.19] Particle Swarm Optimization Based Resource Block Allocation Algorithm for Downlink LTE Systems
Lin Su (Tongji University, P.R. China); Ping Wang (Tongji University, P.R. China); Fuqiang Liu (Tongji University, P.R. China)

[P-2.20] Improved Dual Adaptive Importance Sampling Method for LDPC Codes
Yuan Liu (Tianjin University, P.R. China); Weigang Chen (Tianjin University, P.R. China); Jinsheng Yang (Tianjin University, P.R. China); Tongxin Dong (Tianjin University, P.R. China)

[P-2.21] Encoder Implementation with FPGA for Non-Binary LDPC Codes
Weigang Chen (Tianjin University, P.R. China); Chenchi Liang (Tianjin University, P.R. China); Tai Guo (Tsinghua University, P.R. China); Yao Ding (Tianjin University, P.R. China)

[P-2.22] Multi-channel Module Design for Mobile Satellite Communications
Young-Bae Jung (Hanbat National University, Korea)

Bruno Chang (Federal Institute of Santa Catarina, Brazil); Carlos Aurélio Rocha (Federal University of Santa Catarina, Brazil); Didier Le Rayet (CNAM, France); Daniel Roviras (CNAM, France)

[P-2.24] Design of a PJM Mode Tag
Jaehyuk Youn (Kwangwoon University, Korea); Yang Hoongee (Kwangwoon University, Korea)

[P-2.25] A Novel Unambiguous Correlation Function for CBOC Synchronization
Changha Yu (Sungkyunkwan University, Korea); Youngpo Lee (Sungkyunkwan University, Korea); Seokho Yoon (Sungkyunkwan University, Korea)

[P-2.26] Performance Analysis of Interference-limited Relay Systems over Large-scale Fading Channels
Hyon-Seok Ryu (Korea University, Korea); Chung G. Kang (Korea University, Korea)

[P-2.27] Using Network Coding to Improve Energy Consumption in AODV Routing Protocol
Ehsan Tavosian (Payam Nor University of Tehran, Iran); Mozafar Bag-Mohammadi (Ilam University, Iran); Reza Askari Moghadam (Payam Nor University of Tehran, Iran)

[P-2.28] Detection of Ammonia in Near Infrared Region Considering the Effect of Cross Sensitivity
Nabihah Hussin (Universiti Teknologi Malaysia); Sevia Mahdaliza Idrus (Universiti Teknologi Malaysia); Mohd Haniff Ibrahim (Universiti Teknologi Malaysia); Abu Sahmah Sapa’at (Universiti Teknologi Malaysia)