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Workshop

July 2, 2013 (Tuesday)

08:00-10:00

Session 1A : PEWiN (Performance Evaluation of Wireless Networks – W2)

Chair : Prof. Kun-Ming Yu, Chung Hua University, Taiwan

[1A-1] Techniques for Mitigating the Difference Between Cyber Systems and Physical Systems

Huang Hshin Wen (Chung Hua University, Taiwan); Chang Wu Yu (Chung Hua University Taiwan); Wen-Ching Tzeng (Chung Hua University, Taiwan); Shu Yu Tung (Chung Hua University, Taiwan)

[1A-2] An Intelligent Active Alert Application on Handheld Device for Emergency Evacuation Guidance

Chung-Chuo Wu (Chung Hua University, Taiwan); Kun-Ming V. Yu (Chung Hua University, Taiwan); Shao-Ting Chine (Chung Hua University, Taiwan); Shao-Tsai Cheng (Chung Hua University, Taiwan); Yuan-Shao Huang (Chung Hua University, Taiwan); Ming-Yuan Lei (Architecture and Building Research Institute, Taiwan); Jiann-Horng Lin (Architecture and Building Research Institute, Taiwan)

[1A-3] Dynamic Coverage Techniques in Mobile Wireless Sensor Networks

Yi Ning Chen (Chung Hua University, Taiwan); Chang Wu Yu (Chung Hua University, Taiwan); Ko-Jui Lin (Chung Hua University, Taiwan)

[1A-4] Safe Path Planning Strategy for Bike Net

Wen Ouyang (Chung Hua University, Taiwan); Chang Wu Yu (Chung Hua University, Taiwan); Kun-Ming V. Yu (Chung Hua University, Taiwan); Huai-Tse Chang (Chung Hua University, Taiwan); Ko-Jui Lin (Chung Hua University, Taiwan)

[1A-5] A Delivery Time-aware Hole Healing Scheme for Wireless Sensor Networks

Fu-Tian Lin (TungFang Design Institute, Taiwan); Chao-Yang Lee (National Cheng Kung University, Taiwan); Tien-Wen Sung (Hsing Kuo University, Taiwan); Chu-Sing Yang (National Cheng Kung University, Taiwan)

Session 1B : UCN (Underwater Communication Networks – W3)

Chair : Prof. Ji-Won Jung (Korea Maritime University, Korea)

[1B-1] MMSE Estimation with CFAR Detection for Underwater Communication Channel

Hyeonsu Kim (Inha University, Korea); Gunwoo Park (Inha University, Korea); Jaehak Chung (Inha University, Korea); Jin Seok Kim (Agency for Defense Development, Korea); Seongil Kim (Agency for Defense Development, Korea)

[1B-2] Application of an Underwater Communication Channel Simulator to Performance Evaluation

Se Hyun Oh (Sonartech Co. Ltd, Korea); Min Jeong Eom (Korea Maritime University, Korea); Jae Soo Kim (Korea Maritime University, Korea); Jeong-Woo Han (Korea Maritime University, Korea); Kiman Kim (Korea Maritime University, Korea)

[1B-3] MIMO Underwater Communication with Sparse Channel Estimation

Byung-Chul Gwon (Korea Maritime University, Korea); Jeong-Woo Han (Korea Maritime University, Korea); Kiman Kim (Korea Maritime University, Korea); Jiwon Jung (Korea Maritime University, Korea)

[1B-4] Vulnerabilities of Android Data Sharing and Malicious Application to Leaking Private Information

Taenam Cho (Woosuk University, Korea); Jae-Hyeong Kim (Woosuk University, Korea); Hyeok-Ju Cho (Woosuk University, Korea); Seung-Hyun Seo (Purdue University, USA); Seungjoo Kim (Korea University, Korea)

[1B-5] Optimizing of Iterative Turbo Equalizer for Underwater Acoustic Channel

Hae Chan Kwon (Korea Maritime University, Korea); Tae Doo Park (Korea Maritime University, Korea); Gunyeol Park (Korea Maritime University, Korea); Taehun Kim (Korea Maritime University, Korea); Kiman Kim (Korea Maritime University, Korea); Jiwon Jung (Korea Maritime University, Korea)

Session 1C : IWIV (Intelligent Vehicle – W4)

Chair : Prof. Dong Seog Han, Kyungpook National University, Korea)

[1C-1] Design and Implementation of Intersection Movement Assistant Applications Using V2V Communications

Hyunsoo Seo (Hanyang University, Korea); Chang Jin Lee (Hanyang University, Korea); Dong Gyu Noh (Hyundai-Kia Motors, Korea); Sang-Sun Lee (Hanyang University, Korea)

[1C-2] Performance Analysis for Priority Based Broadcast in Vehicular Networks

Rinara Woo (Kyungpook National University, Korea); Dong Seog Han (Kyungpook National University, Korea)

[1C-3] A Simple Data Transmission Scheduling Method for Wireless Sensor Networks

Hyunwoo Kang (Electronics and Telecommunications Research Institute, Korea); Yun Su Chung (Electronics and Telecommunication Research Institute, Korea); Soo-In Lee (Electronics and Telecommunications Research Institute, Korea); Dongkyun Kim (Kyungpook National University, Korea)

[1C-4] Approach for PHY/MAC Cross-layer Design in Vehicular Ad-Hoc Networks

Jihoon Joo (Kyungpook National University, Korea); Hee Chang Lee (Kyungpook National University, Korea); Dong Seog Han (Kyungpook National University, Korea)

[1C-5] HIMALIS-C-ITS: Fast and Secure Mobility Management Scheme Based on HIMALIS for Cooperative ITS Service in Future Networks

Hong-Jong Jeong (Kyungpook National University, Korea); Ved P. Kafle (National Institute of Information and Communications Technology (NICT), Japan); Hongseok Yoo (Kyungpook National University, Korea); Dongkyun Kim (Kyungpook National University, Korea)

July 2, 2013 (Tuesday)

10:15-12:15

Session 2A : PEWiN (Performance Evaluation of Wireless Networks – W2)

Chair : Prof. James C. W. Yu, Chung Hua University, Taiwan

[2A-1] Load Sharing for Mobile Agents Using Genetic Algorithms
Wang Tien (Hungkuang University, Taiwan)

[2A-2] A Trustworthy QoS-based Mechanism for Web Service Discovery Based on Collaborative Filtering
Szu-Yin Lin (Chung Yuan Christian University, Taiwan)

[2A-3] The Impact of the Transmission Power Range on Energy Consumption for Wireless Sensor Networks
Rei-Heng Cheng (YuanPei University, Taiwan); Huang Chiming (Hsuan Chuang University, Taiwan)

[2A-4] Improving System and Software Deployment on a Large-Scale Cloud Data Center
Tong-Ying Juang (National Taipei University, Taiwan)

[2A-5] Robustness of Community Structure Algorithm of Complex Network in the Task State Brain Function
Hongyong Li (Lanzhou University of Technology, P.R. China); Ming Ke (Lanzhou University of Technology, P.R. China); Xuhui Chen (Xiamen University of Technology, P.R. China)

[2A-6] Active Black Holes Detection in Ad-Hoc Wireless Networks
Chun-Hsin Wang (Chung Hua University, Taiwan)

Session 2B : UCN (Underwater Communication Networks – W3)

Chair : Prof. Ho-Shin Cho (Kyungpook National University, Korea)

[2B-1] EERT-Energy Efficient Reliable Transport Protocol for Underwater Sensor Network
Awais Ahmad (Kyungpook National University, Daegu, S. Korea, Korea); Abdul Wahid (Kyungpook National University, Korea); Donglyun Kim (Kyungpook National University, Korea); Jiman Hong (Soongsil University, Korea)

[2B-2] A Node-Grouped OFDMA for Multi-Cluster Underwater Sensor Networks
Jinyong Cheon (Kyungpook National University, Korea); Kweon Son (Agency for Defense Development, Korea); Sang-kug Lee (Agency for Defense Development, Korea); Ho-Shin Cho (Kyungpook National University, Korea)

[2B-3] Proposed Framework for Underwater Sensor Cloud for Environmental Monitoring
Srimathi C (VIT University, India); Soo-Hyun Park (Kookmin University, Korea); Rajesh N (VIT University, India)

[2B-4] Channel Reserved MAC Protocol for Underwater Sensor Networks
Youn-Seon Jang (Chungnam National University, Korea)

[2B-5] Water Tank Experiment on Forward Link Underwater Code Division Multiple Access Scheme
Bo-Min Seo (Kyungpook National University, Korea); Kweon Son (Agency for Defense Development, Korea); Sang-kug Lee (Agency for

Defense Development, Korea); Ho-Shin Cho (Kyungpook National University, Korea)

Session 2C : IWIV (Intelligent Vehicle – W4)

Chair : Prof. Soon Ki Jung (Kyungpook National University, Korea)

[2C-1] AUTOSAR Unit Testing Approach Based on Virtual Prototyping for Software Components
Hodong Ryu (Kyungpook National University, Korea); Soo Young Jang (Kyungpook National University, Korea); Woojin Lee (Kyungpook National University, Korea)

[2C-2] Passenger Management System Based on Face Recognition for Intelligent Transport Vehicles
Byung-Gil Han (Electronics and Telecommunications Research Institute, Korea); Kil-Taek Lim (Electronics and Telecommunications Research Institute, Korea); Yun Su Chung (Electronics and Telecommunication Research Institute, Korea); Soo-In Lee (Electronics and Telecommunications Research Institute, Korea)

[2C-3] Geometric Feature Selection for Vehicle Pose Estimation on Dynamic Road Scenes
Jae Seok Jang (Kyungpook National University, Korea); Kwang Hee Won (Kyungpook National University, Korea); Soon Ki Jung (Kyungpook National University, Korea)

[2C-4] A Study on Test Automation of IVN of Intelligent Vehicle Using Model-based Testing
Kabsu Han (Kyungpook National University, Korea); InSick Son (Kyungpook National University, Korea); Jeonghun Cho (Kyungpook National University, Korea)

July 2, 2013 (Tuesday)

13:45-15:45

Session 3A : CRCN (Cognitive Radio Communications and Networks – W6)

Chair : Prof. Jaehak Chung (Inha University, Korea)

[3A-1] Spectrum Sharing Between Cellular Uplink and Device-to-Device Communication Systems
Gil-Mo Kang (Soongsil University, Korea); Oh-Soon Shin (Soongsil University, Korea)

[3A-2] Opportunistic Channel Reuse for a Self-organized Visible Light Communication Personal Area Network
Nirzhar Saha (Kookmin University, Korea); Ratan Kumar Mondal (Kookmin University, Korea); Yeong Min Jang (Kookmin University, Korea)

[3A-3] QoS Based Precoding Scheme in K-user MIMO Interference Channels
Jongpil Seo (Inha University, Korea); Jaeyoung Kim (Inha University, Korea); Chamsol Yang (Inha University, Korea); Jaehak Chung (Inha University, Korea)

[3A-4] A Cognitive Scheduling Method for Demand Response Ensured Home Energy Management
Zhuang Zhao (Soongsil University, Korea); Joo Pyoung Choi

(Soongsil University, Korea); Kyumin Park (Soongsil University, Korea); Won Cheol Lee (Soongsil University, Korea)

Session 3B : WATCN (Advanced Technology for Communication Networks – W1)

Chair : Prof. Ki-Hyung Kim (Ajou University, Korea)

[3B-1] Multiuser Precoding in MIMO Two-Way Relay Transmission

Vien Nguyen-Duy-Nhat (Danang University of Technology, Vietnam); Hung Nguyen-Le (Danang University of Technology, Vietnam); Chien Tang-Tan (Danang University of Technology, Vietnam); Mai Le-Thi-Phuong (Danang University of Technology Vietnam, Vietnam)

[3B-2] A Novel Handover Scheme in Moving Vehicular Femtocell Networks

Sunghun Chae (Kookmin University, Korea); Tuan Nguyen (Kookmin University, Korea); Yeong Min Jang (Kookmin University, Korea)

[3B-3] Wormhole Attack Prevention Mechanism for RPL based LLN networks

Faraz Idris Khan (Ajou University, Korea); Taeshik Shon (Ajou University, Korea); Taekkyeun Lee (Ajou University, Korea); Ki-Hyung Kim (Ajou University, Korea)

July 2, 2013 (Tuesday)

16:00-18:00

Session 4A : CRCN (Cognitive Radio Communications and Networks – W6)

Chair : Prof. Won Cheol Lee (Soongsil University, Korea)

[4A-1] Reliable Cluster-based Common Channel Setup Method for DSA CR Networks

Min-Gyu Kim (Inha University, Korea); Sang-jo Yoo (Inha University, Korea); Yong-Up Jang (Agency for Defense Development, Korea); Kwang-Eog Lee (Agency for Defense Development, Korea)

[4A-2] Location-Based Subcarrier Allocation Scheme for Secondary Systems in Cognitive Radios

Kwangyul Kim (Soongsil University, Korea); Honggyu Jung (Soongsil University, Korea); Junsu Kim (Korea Polytechnic University, Korea); Yoan Shin (Soongsil University, Korea)

[4A-3] On the Capacity of Secondary Networks Over Opportunistic Spectrum Access in Rayleigh Fading Channels

Mohammed Adel Abdel-Hafez (United Arab Emirates University, UAE); Omkalthoum ElBashir (UAEU, UAE); Khaled Shuaib (United Arab Emirates University, UAE)

[4A-4] Implementation of Spectrum Sensing Platform for Cognitive Radio Systems

Hoiyoon Jung (ETRI, Korea); Sang-Won Kim (ETRI, Korea); Sun Min Lim (ETRI, Korea); Byung Jang Jeong (ETRI, Korea)

July 3, 2013 (Wednesday)

13:30-15:30

Session 7C : OWLED (Optical-Wireless LED Communication Techniques – W5)

Chair : Prof. Yeong Min Jang (Kookmin University, Korea)

[7C-1] Performance Improvement of Visible Light Communications Using Optical Beamforming

Sung-Man Kim (Kyungsoong University, Korea); Seong-Min Kim (Kyungsoong University, Korea)

[7C-2] A Pre-Scanning-Based Link Switching Scheme in Visible Light Communication Networks

Tuan Nguyen (Kookmin University, Korea); Yeong Min Jang (Kookmin University, Korea)

[7C-3] BER Analysis of MIMO/FSO Systems Using Rectangular QAM Over Gamma-Gamma Channels

Bach Vu (The University of Aizu, Japan); Truong Cong Thang (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)

[7C-4] Design of Multi-Spectral Coded VPPM for Optical Wireless LED Communications

Hyeon-Cheol Kim (Yeungnam University, Korea); Jong-Ho Yoo (Yeungnam University, Korea); Jun-Pyo Jeon (Korea Advanced Institute of Science and Technology, Korea); Sung-yoon Jung (Yeungnam University, Korea)

[7C-5] Performance Analysis of M-ary PPM in Dimmable Visible Light Communications

Rimhwan Lee (Yeungnam University, Korea); Kyungsu Yun (Yeungnam University, Korea); Jong-Ho Yoo (Yeungnam University, Korea); Sung-yoon Jung (Yeungnam University, Korea); JaeKyun Kwon (Yeungnam University, Korea)

[7C-6] Performance Analysis on MAC Protocol Based on Beacon-Enabled Visible Personal Area Networks

Junho Hwang (Soongsil University, Korea); Trong-Hop Do (Soongsil University, Korea); Myungsik Yoo (Soongsil University, Korea)

July 3, 2013 (Wednesday)

16:00-18:00

Session 8C : OWLED (Optical-Wireless LED Communication Techniques – W5)

Chair : Prof. Sung-yoon Jung (Yeungnam University, Korea)

[8C-1] TDoA Based Indoor Visible Light Positioning Systems

Trong-Hop Do (Soongsil University, Korea); Junho Hwang (Soongsil University, Korea); Myungsik Yoo (Soongsil University, Korea)

[8C-2] Space-Time Forward Error Correction for Dimmable Undersampled Frequency Shift ONOFF Keying Camera Communications (CamCom)

Richard D Roberts (Intel Corporation, USA)

[8C-3] Demonstration of Vehicular Visible Light Communication Based on LED Headlamp

Jong-Ho Yoo (Yeungnam University, Korea); Rimhwan Lee (Yeungnam University, Korea); Jun-Kyu Oh (LED-IT Fusion Technology Research Center, Korea); Hyun-Wook Seo (LED-IT Fusion Technology Research Center, Korea); Ju-Young Kim (LED-IT fusion Technology research

center, Korea); Hyeon-Cheol Kim (Yeungnam University, Korea); Sung-yoon Jung (Yeungnam University, Korea)

[8C-4] Three-Dimensional Localization Based on Visible Light Optical Wireless Communication

Se-Hoon Yang (Yonsei University, Korea); Eun-Mi Jeong (Yonsei University, Korea); Deok-Rae Kim (Yonsei University, Korea); Hyun-Seung Kim (Yonsei University, Korea); Yong-Hwan Son (Yonsei University, Korea); Sang-Kook Han (Yonsei University, Korea)

[8C-5] Estimated Position Error Compensation in Localization Using Visible Light Communication

Eun-Mi Jeong (Yonsei University, Korea); Deok-Rae Kim (Yonsei University, Korea); Se-Hoon Yang (Yonsei University, Korea); Hyun-Seung Kim (Yonsei University, Korea); Yong-Hwan Son (Yonsei University, Korea); Sang-Kook Han (Yonsei University, Korea)

Technical Sessions

July 3, 2013 (Wednesday)

08:00-09:20

Session 5A : Network Security I

Chair : Prof. Sunwoong Choi (Kookmin University, Korea)

[5A-1] A Novel Challenge & Response Scheme Against Selective Forwarding Attacks in MANETs

Thongchai Chuachan (Mahasarakham University, Thailand); Somnuk Puangpronpitag (Mahasarakham University, Thailand)

[5A-2] Fingerprint-based User Authentication Scheme for Home Healthcare System

Qiuyan Jin (Sungkyunkwan University, Korea); Woongryul Jeon (Sungkyunkwan University, Korea); Changwhan Lee (Sungkyunkwan University, Korea); Youngchul Choi (Security Global Alliance, Korea); Dongho Won (Sungkyunkwan University, Korea)

[5A-3] Security and Privacy Enhancement in VANETs Using Mobility Pattern

Fuad A. Ghaleb (UTM, Malaysia); Mohammad Abdur Razzaque (Universiti Teknologi Malaysia, Malaysia); Ismail Fauzi Isnin (Universiti Teknologi Malaysia, Malaysia)

[5A-4] A Secure Handshake Scheme for Mobile-hierarchy City Intelligent Transportation System

Shuai Li (Beijing Institute of Technology, P.R. China); Peng Gong (Beijing Institute of Technology, P.R. China); Qian Yang (Beijing Institute of Technology, P.R. China); Mingguan Li (Beijing Institute of Technology, P.R. China); Jiejun Kong (University of Florida, USA); Ping Li (Beijing Institute of Technology, P.R. China)

Session 5B : Wireless Sensor Network I

Chair : Prof. Ji-Woong Choi (DGIST, Korea)

[5B-1] IPv4/IPv6 Transition Mechanisms for Ubiquitous Wireless Sensor Networks Monitoring

André G. F. Elias (Instituto de Telecomunicações, University of Beira Interior, Portugal); Joel J. P. C. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal); Luís M. L. Oliveira (IT, UBI and Polytechnic Institute of Tomar, Portugal); Liang Zhou (Nanjing University of Posts and Telecommunications, P.R. China)

[5B-2] A Novel Hardware Efficient FIR Filter for Wireless Sensor Networks

Cheng Xu (Hunan University, P.R. China); Su Yin (Hunan University, P.R. China); Yunchuan Qin (Hunan University, P.R. China); Hanzheng Zou (Hunan University, P.R. China)

[5B-3] High Efficient Multiple Sensing Information Gathering for Wireless Sensor Networks

Takeo Fujii (The University of Electro-Communications, Japan); Mai Ohta (The University of Electro-Communications, Japan); Tomomi Endo (The University of Electro-Communications, Japan)

[5B-4] Frequency Assigned Information Gathering Method for Motion-Capture in Wireless Sensor Networks

Shunta Sakai (The University of Electro-Communications, Japan); Tomomi Endo (The University of Electro-Communications, Japan); Takeo Fujii (The University of Electro-Communications, Japan)

Session 5C : Wireless Local Area Network I

Chair : Prof. Ihn-Han Bae (Catholic University of Daegu, Korea)

[5C-1] An Improvement of TCP Performance Over Wireless Networks

Thi-Ha Nguyen (Soongsil University, Korea); Minho Park (Soongsil University, Korea); Souhwan Jung (Soongsil University, Korea)

[5C-2] Carrier Sensing Multiple Access with Collision Resolution (CSMA/CR) Protocol for Next-Generation Wireless LAN

Hyun-Ho Choi (Hankyong National University, Korea); Howon Lee (Hankyong National University, Korea); In-Ho Lee (Hankyong National University, Korea)

[5C-3] Performance of Constant Power Allocated Channel-Adaptive Random Access with Imperfect Channel Reciprocity

Ingil Ryu (Hanyang University, Korea); Hichan Moon (Hanyang University, Korea)

[5C-4] X-MAC Protocol with Collision Avoidance Algorithm

Ayaz Ullah (University of Dongguk, Korea); Ahn Jongsuk (University of Dongguk, Korea); Kim Gayoung (University of Dongguk, Korea)

July 3, 2013 (Wednesday)

09:30-10:50

Session 6A: Network Security II

Chair : Prof. Souhwan Jung (Soongsil University, Korea)

[6A-1] Lightweight Detecting and Resolving Algorithm for Firewall Policy Conflict

Qi Xiao (Hunan University, P.R. China); Qin Yunchuan (Hunan University, P.R. China); Xu Cheng (HNU, P.R. China); Kenli Li (University of Hunan, P.R. China)

[6A-2] A Fast and Efficient Authentication Scheme for WAVE Unicast Services in Vehicular Networks

Atthapol Suwannasa (Mahasarakham University, Thailand); Somnuk Puangpronpitag (Mahasarakham University, Thailand)

[6A-3] SAKES: Secure Authentication and Key Establishment Scheme for M2M Communication in the IP-Based Wireless Sensor Network (6LoWPAN)

Hassen Redwan (Ajou University, Korea); Gebere Tizazu (Ajou University, Korea); Ting Miao (Ajou University, Korea); Taekyeun Lee (Ajou University, Korea); Young-June Choi (Ajou University, Korea); Ki-Hyung Kim (Ajou University, Korea)

[6A-4] A Memory Efficient FPGA-based Pattern Matching Engine for Stateful NIDS

Tran Trung Hieu (HCMC University of Technology, Vietnam); Tran Ngoc Thinh (Ho Chi Minh City University of Technology, Vietnam)

Session 6B : Wireless Sensor Network II

Chair : Prof. Takeo Fujii (The University of Electro-Communications, Japan)

[6B-1] UMRC: Multichannel and Multihop Clustering Communication for Improving Performance of Wireless Sensor Networks

Kieu-Ha Phung (Vrije Universiteit Brussels, Belgium); Thu Ngo-Quyhn (HUST, Vietnam); Hung Vu-Manh (Hanoi University of Science and Technology, Vietnam)

[6B-2] Target Tracking System Using Lateration Estimation Method in Wireless Sensor Networks

Vinh Tran-Quang (Hanoi University of Science and Technology, Vietnam); Hung Nguyen-Khanh (Hanoi University of Science and Technology, Vietnam); Thu Ngo-Quyhn (HUST, Vietnam)

[6B-3] A Forwarder Selection Method for Greedy Mode Operation of a Geographic Routing Protocol in a WSN

Jaesung Park (Suwon University, Korea); Yong Nyeon Kim (University of Suwon, Korea); Jin Yong Byun (University of Suwon, Korea)

[6B-4] An Energy Efficient and Reliable ARQ Scheme (E²R-ACK) for Wireless Sensor Networks

Jaiyong Lee (Yonsei University, Korea); Jaeho Lee (National Information-Society Agency, Korea)

Session 6C : Wireless Local Area Network II

Chair : Prof. Sung-yoon Jung (Yeungnam University, Korea)

[6C-1] Assuring Per-station Fairness in Multi-Rate WLANs: A Hybrid Approach of Contention Window Control and Frame Aggregation

Muhammad Adnan (Dongguk University, Korea); Eun-Chan Park (Dongguk University, Korea)

[6C-2] Sender-Initiated Reservations for Reducing Collisions in 802.11 MAC

Xiao Ying Lei (Kwangwoon University, Korea); Seung Hyong Rhee (Kwangwoon University, Korea)

[6C-3] A Novel Metric for Dynamic Channel Assignment in Enterprise Wireless Networks

Seongwon Kim (Seoul National University, Korea); Seungmin Yoo

(Seoul National University, Korea); Yeonchul Shin (Seoul National University, Korea); Sunghyun Choi (Seoul National University, Korea)

[6C-4] Harnessing Self-Cancellation for Coexistence of Wi-Fi and Bluetooth

Wonhong Jeon (DGIST, Korea); Sungmin Han (DGIST, Korea); Ji-Woong Choi (DGIST, Korea); Kyung-Joon Park (DGIST, Korea)

July 3, 2013 (Wednesday)

13:50-15:50

Session 7A : MIMO and Cooperative Communication

Chair : Prof. Dongkyun Kim (Kyungpook National University, Korea)

[7A-1] An Interference-Robust Channel Estimation Method for MU-MIMO Transmission in LTE-Advanced System

Won Jun Hwang (Sungkyunkwan University, Korea); Junhee Jang (Sungkyunkwan University, Korea); Hyung-Jin Choi (Sungkyunkwan University, Korea)

[7A-2] Average Capacity of MIMO/FSO Systems with Equal Gain Combining Over Log-Normal Channels

Duy A. Luong (The University of Aizu, Japan); Truong Cong Thang (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)

[7A-3] Low Complexity Lattice Reduction Aided Precoding and Detection for Multiuser MIMO Systems

Md. Hashem Ali Khan (Chonbuk National University, Korea); Moon Ho Lee (Chonbuk National University, Korea)

[7A-4] Particle Swarm Optimization Based Power Allocation in DF Cooperative Communications

Zhiquan Bai (Shandong University, P.R. China); Yinlong Xu (Shandong University, P.R. China); Peihao Dong (Shandong University, P.R. China); Peng Gong (Beijing Institute of Technology, P.R. China); Kyung Sup Kwak (Inha University, Korea)

[7A-5] Locally Exploitable Heterogeneous Multihop Communications Applied to Cooperative-robots

Akira Tanaka (Tokyo National College of Technology, Japan)

[7A-6] ProRATE: Obtaining the Potential Throughput From the System View in Two-way Relay Networks

Lingyun Zhu (Fudan University, P.R. China); Hai Wang (Fudan University, P.R. China); Xin Wang (Fudan University, P.R. China); Yu Zhu (Fudan University, P.R. China); Azman Osman Lim (Japan Advanced Institute of Science and Technology (JAIST), Japan)

Session 7B : VANET & ITS

Chair : Thomas Finke (Heilbronn University, Germany)

[7B-1] A VANET Routing Based on the Real-time Road Vehicle Density in the City Environment

Hyun Yoo (University of Seoul, Korea); Sanghyun Ahn (University of Seoul, Korea); Joon Yoo (Gachon University, Korea)

[7B-2] ACK-based Broadcast Protocol for Vehicular Ad Hoc Networks

Ajmal Khan (Kyungpook National University, Korea); Jae-Choong Nam (Kyungpook National University, Korea); You-Ze Cho (Kyungpook National University, Korea)

[7B-3] Designing an Enhanced Route Guided Navigation for Intelligent Vehicular System (ITS)

Md. Humaun Kabir (Inha University, Korea); Md Nasre Alam (Inha University, Korea); Kyung Sup Kwak (Inha University, Korea)

[7B-4] Cross-Layer Optimization of Vehicle-to-Vehicle Video Streaming for Overtaking Maneuver Assistance Systems

Sommuk Puangpronpitag (Mahasarakham University, Thailand); Piyawad Kasabai (Mahasarakham University, Thailand); Athapol Suwannasa (Mahasarakham University, Thailand)

[7B-5] Intersection-Priority Based Optimal RSU Allocation for VANET

Soyoung Park (Konkuk University, Korea); Jeonghee Chi (Konkuk University, Korea); Yeongwon Jo (Konkuk University, Korea); Hyunsun Park (Konkuk University, Korea)

[7B-6] A Seamless Handover Scheme for IEEE WAVE Networks Based on Multi-way Proactive Caching

Hyukjoon Lee (Kwangwoon University, Korea); Young-Uk Chung (Kwangwoon University, Korea); Yong-Hoon Choi (Kwangwoon University, Korea)

July 3, 2013 (Wednesday)

16:20-18:20

Session 8A: Application I

Chair : Prof. Dong Seog Han (Kyungpook National University, Korea)

[8A-1] Design Framework for Ontology Based Interactive E-health Services

Wasin Passornpakorn (Prince of Songkla University, Thailand); Sinchai Kamolphiwong (Prince of Songkla University, Thailand); Thossaporn Kamolphiwong (Prince of Songkla University, Thailand); Verapol Chandeeying (Prince of Songkla University, Thailand)

[8A-2] Automated Methodology for Gastric Endoscopy in an E-Health Environment

Suk Kyu Lee (Korea University, Korea); Eugene Kim (Korea University, Korea); Seungho Yoo (Korea University, Korea); Hwangnam Kim (Korea University, Korea)

[8A-3] VoIP Quality of Experience: A Study of Perceptual Voice Quality From G.729, G.711 and G.722 with Thai Users Referring to Delay Effects

Pongpisit Wuttidittachotti (King Mongkut's University of Technology North Bangkok, Thailand); Therdpong Daengsi (Faculty of Information Technology, King Mongkut's University of Technology North Bangkok, Thailand); Chai Wutiwivatchai (Speech and Audio Technology Laboratory, NECTEC, Thailand); Apiruck Preechayasomboon (Metropolitan Sale and Services 3, TOT, Thailand); Saowanit Sukparungsee (Department of Applied Statistics, Faculty of Applied Science, KMUTNB, Thailand)

[8A-4] VoIP Quality of Experience: A Proposed Subjective MOS Estimation Model Based-on Thai Users

Therdpong Daengsi (Faculty of Information Technology, King Mongkut's

University of Technology North Bangkok, Thailand); Pongpisit Wuttidittachotti (King Mongkut's University of Technology North Bangkok, Thailand); Chai Wutiwivatchai (Speech and Audio Technology Laboratory, NECTEC, Thailand); Apiruck Preechayasomboon (Metropolitan Sale and Services 3, TOT, Thailand); Saowanit Sukparungsee (Department of Applied Statistics, Faculty of Applied Science, KMUTNB, Thailand)

[8A-5] N-Screen Smart TV Contents Personalization System Using Adaptive Hybrid Similarity Approach

Farman Ullah (Korea Aerospace University, Korea); Ghulam Sarwar (Korea Aerospace University, Korea); Sung Chang Lee (Korea Aerospace University, Korea)

[8A-6] A Library for RTP Relaying and QoS Monitoring in Application Layer Multicast

Valerio De Luca (University of Salento, Italy); Franco Tommasi (University of Salento, Italy); Catuscia Melle (University of Salento, Italy)

Session 8B : Mobile Network

Chair : Prof. Khuong Ho-Van (Hanoi University of Science and Technology, Vietnam)

[8B-1] A Mobility Prediction Algorithm for the Seamless Handoff Chuyen Luong (Chonnam National University, Korea); Thang Hoang (Chonnam National University, Korea); Deokjai Choi (Chonnam National University, Korea)

[8B-2] High Throughput LDPC Decoder Architecture for DVB-S2 Taehun Kim (Korea Maritime University, Korea); Tae Doo Park (Korea Maritime University, Korea); Gunyeol Park (Korea Maritime University, Korea); Hae Chan Kwon (Korea Maritime University, Korea); Jiwon Jung (Korea Maritime University, Korea)

[8B-3] Implementing WiMAX Signal Detection Using Reconfigurable Processor

Nuzli Mohamad Anas (University Teknologi Malaysia, Malaysia); Mohamad Yusri Mohamad Yusof (Mimos Berhad, Malaysia)

[8B-4] Toward A Full Implementation of SCIM Functional Block in IMS Framework

Nguyen Tai Hung (Hanoi University of Technology, Vietnam); Nguyen Huu Thanh (Hanoi University of Science and Technology, Vietnam); Julius Mueller (Technische Universität Berlin, Germany); Thomas Magedanz (TU Berlin / Fraunhofer FOKUS, Germany)

[8B-5] Mobile Device Based HRV Analysis System

Hoang ChuDuc (Hanoi University of Science and Technology, Vietnam); Duong Luong (Hanoi University of Science and Technology, Vietnam); Nguyen Thuan (Hanoi University of Science and Technology, Vietnam); Trinh Duc (Hanoi University of Science and Technology, Vietnam)

[8B-6] Exploiting User Movement Direction and Hidden Access Point for Smartphone Localization

Eugene Kim (Korea University, Korea); Seungho Yoo (Korea University, Korea); Hwangnam Kim (Korea University, Korea)

July 4, 2013 (Thursday)

09:20-10:20

Session 9A : Wireless Sensor Network III

Chair : Prof. Dongkyun Kim (Kyungpook National University, Korea)

[9A-1] Underwater Hybrid Routing Protocol for UWSNs

Sungwon Lee (Kyungpook National University, Korea); Dongkyun Kim (Kyungpook National University, Korea)

[9A-2] An Energy Efficient MAC Protocol for WBAN Through Flexible Frame Structure

JunSung Choi (Korea Polytechnic University, Korea); JeongGon Kim (Korea Polytechnic University, Korea)

[9A-3] Study on Limitation of Removal of Baseline Noise From Electrocardiography Signal in Measurement Using Wavelet Analysis

Duong Trong Luong (Hanoi University of Science and Technology, Vietnam); Chu Hoang (Hanoi University of Science and Technology, Vietnam); Nguyen Trang (Hanoi University of Science and Technology, Vietnam); Trinh Duc (Hanoi University of Science and Technology, Vietnam); Nguyen Thuan (Hanoi University of Science and Technology, Vietnam)

Session 9B : Application II

Chair : Dr. Richard D Roberts (Intel, USA)

[9B-1] Towards a Semantic-aware Indoor Location Estimation for Smart-phones

Ali Yavari (KTH Royal Institute of Technology, Sweden); Zary Segall (KTH Royal Institute of Technology, Sweden)

[9B-2] Circle-Mesh Overlay for P2P-based RTCWeb Conferencing System

Tho Hoanh Huu Le (SoongSil University, Korea); YoungHan Kim (SoongSil University, Korea)

[9B-3] Cloud Computing for u-Health and Automotive Environment

Minwoo Jung (Kyungpook National University, Korea); Kabsu Han (Kyungpook National University, Korea); Jeonghun Cho (Kyungpook National University, Korea)

Session 9C : Cognitive Radio I

Chair : Dr. Seung-Hyun Seo (Purdue University, USA)

[9C-1] Outage Behaviour of Cooperative Underlay Cognitive Networks with Inaccurate Channel Estimation

Khuong Ho-Van (HoChiMinh City University of Technology, Vietnam); Sofotias C. Paschalis (University of Leeds, United Kingdom)

[9C-2] Cooperative Spectrum Sensing with Adaptive Node Selection for Cognitive Radio Networks

Taiping Cui (Inha University, Korea); Kyung Sup Kwak (Inha University, Korea)

[9C-3] Wireless Spectrum Allocation by Simulated Annealing

Charles Fleming (Xi'an Jiaotong-Liverpool University, P.R. China); Xing Zhou (Xi'an Jiaotong-Liverpool University, P.R. China); Haining Liang (Xi'an Jiaotong Liverpool University, P.R. China)

July 4, 2013 (Thursday)

10:30-12:00

Session 10A : Future Network I

Chair : Prof. Ki-Hyung Kim (Ajou University, Korea)

[10A-1] Name-Based Routing for Information Centric Future Internet Architectures

Mofassir Haque (University of Canterbury, New Zealand); Krzysztof Pawlikowski (University of Canterbury, New Zealand); Andreas Willig (University of Canterbury, New Zealand); Ludger Bischofs (University Of Canterbury, New Zealand)

[10A-2] CenLavi: Virtual Computer Network Laboratory

Ngoc Hong Tran (University of Science, HCMC-VNU, Vietnam); Tan Cao (University of Science, VNU-HCM, Vietnam); Petteri Kaskenpalo (Auckland Technical University, New Zealand); Hoa Tran (Auckland Technical University, Vietnam); Dat Luu (Auckland University of Technology, Vietnam); Phong Chiem (Auckland Technical University, Vietnam)

[10A-3] A New Scheme for Network Topology Management in Policy and Charging Control Architecture

Soonuk Seol (Korea University of Technology and Education, Korea); Sungsoo Cho (Advanced Institute of Technology, KT, Korea)

[10A-4] A Sequential Reading Strategy to Improve the Performance of RFID Anti-collision Algorithm in Dense Tag Environments

Sunil Dhakal (Chosun University, Korea); Seokjoo Shin (Chosun University, Korea)

Session 10B : Cognitive Radio II

Chair : Prof. Won Cheol Lee (Soongsil University, Korea)

[10B-1] Optimal Sensing Interval Considering Per-Primary Transmission Protection in Cognitive Radio Networks

Jae-Kark Choi (Inha University, Korea); Sang-jo Yoo (Inha University, Korea)

[10B-2] Cognitive Cooperative Networks with Cluster-Based Relaying Under Interference Constraints

Hung Tran (National Institute of Education Management, Vietnam); Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden); Hoc Phan (Blekinge Institute of Technology, Sweden); Trinh Quang (31 -Phan Dinh Giot Street, Hanoi, Sweden)

[10B-3] Game-Theoretic Analysis of Selfish Secondary Users in Cognitive Radio Networks

Halefom Zerihun (Ajou University, Korea); Young-June Choi (Ajou University, Korea)

[10B-4] A Robust STBC Based Dynamical Clustering Cooperative Spectrum Sensing Scheme in CR Systems

Bing Wang (Shandong University, P.R. China); Zhiquan Bai (Shandong University, P.R. China); Yinlong Xu (Shandong University, P.R. China); Peng Gong (Beijing Institute of Technology, P.R. China); Kyung Sup Kwak (Inha University, Korea)

Session 10C : Future Network II

Chair : Prof. Sung-Man Kim (Kyungsoong University, Korea)

[10C-1] Path Failure Detection and Session Recovery Mechanism in Multihomed HIMALIS Network

Ved P. Kafle (National Institute of Information and Communications

Technology (NICT), Japan); Yusuke Fukushima (National Institute of Information and Communications Technology, Japan); Hiroaki Harai (National Institute of Information and Communications Technology, Japan)

[10C-2] Merging Existing Network Nodes Into A New Combined Node

Bup-Joong Kim (ETRI, Korea); Yung-Wook Ra (ETRI, Korea); Bheom-Soon Joo (ETRI, Korea); Jong-Hyun Lee (ETRI, Korea)

[10C-3] Improving the Video Transmission Quality Over IP Network

Thang Cao (University of Economic and Technical Industries, Vietnam); Thuc Hai Nguyen (Hanoi University of Science and Technology Hanoi, Vietnam); Linh Giang Nguyen (Hanoi University of Science and Technology Hanoi, Vietnam)

[10C-4] 6LoWPAN Based Neighborhood Area Network for a Smart Grid Communication Infrastructure

Dong Chen (The University of Newcastle, Australia); Jason Brown (University of Newcastle, Australia); Jamil Y Khan (The University of Newcastle, Australia)

July 4, 2013 (Thursday)

13:30-15:30

Session 11A : Application III

Chair : Prof. Jaesung Park (Suwon University, Korea)

[11A-1] Battery Management System by Using CAN Communication Based on DSP Platform

Jeong-Hyo Bae (Korea Electrotechnology Research Institute, Korea); Bai Zhiguo (Korea Electrotechnology Research Institute, Korea); Bong-Jun Koo (Korea Electrotechnology Research Institute, Korea); Hong-Ryoung Kim (Korea Electrotechnology Research Institute, Korea); Dae-Gyeong Jang (Korea Electrotechnology Research Institute, Korea)

[11A-2] Energy Efficient Gas Emission Monitoring Systems Using Wireless Sensor Networks

Mohammad Abdur Razzaque (Universiti Teknologi Malaysia, Malaysia); Md Adnan (University of Technology Malaysia, Malaysia); Abdul Hanan Abdullah (University Technology of Malaysia, Malaysia)

[11A-3] Architecture of a Network Performance Monitor for Application Services on Multi-Clouds

Young-min Kim (Chung-Ang University, Korea); Ki-sung Lee (Chung-Ang University, Korea); Jae-cheol Uhm (Chung-Ang University, Korea); Si-chang Kim (Chung-Ang University, Korea); Minsuk Song (Samsung Electronics, Korea); Honguk Woo (Samsung Electronics, Korea); Lee Chan-gun (Chung-Ang University, Korea)

[11A-4] A Low Computational Equalization Method for Capsule Endoscope System

Joon Young Son (SungKyunKwan University, Korea); Kyung Hoon Won (Sungkyunkwan, Korea); Hyung-Jin Choi (SungKyunKwan University, Korea); Kiyun Kim (Myongji College, Korea); Sung Il Seo (IntroMedic, Korea); YoungDae Seo (Intromedic, Korea)

[11A-5] Traffic Analysis of the Live P2P Personal Broadcasting Service in the Campus Network

Young-Tae Han (KAIST, Korea); Bokrae Jung (Sungkyul Univ., Korea); Hong-Shik Park (Korea Advanced Institute of Science and Technology (KAIST), Korea)

[11A-6] 70/80 GHz GaAs MMIC Receiver with 4th SHP Mixer
Bong-Su Kim (ETRI, Korea); Woo-Jin Byun (ETRI, Korea); Min-soo Kang (ETRI, Korea); Kwang-Seon Kim (ETRI, Korea); Myung-Sun Song (ETRI, Korea)

Session 11B : Cognitive Radio III

Chair : Prof. Charles Fleming (Xi'an Jiaotong Liverpool University, P.R. China)

[11B-1] Efficient Resource Scheduling Algorithm for the Reconfiguration of a Cognitive Radio Terminal

Wenzhu Zhang (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea); Xingyuan Yin (Xidian University, P.R. China)

[11B-2] Bit Error Rate of Underlay Multi-hop Cognitive Networks in the Presence of Multipath Fading

Khuong Ho-Van (HoChiMinh City University of Technology, Vietnam); Sofotatos C. Paschalis (University of Leeds, United Kingdom)

[11B-3] Low Rate Common Control Channel Based AODV Routing Protocol for Cognitive Radio Ad-hoc Networks

Minglu Jin (Dalian University of Technology, P.R. China); Satish Anamalamudi (Dalian University of Technology, P.R. China)

[11B-4] Outage Performance of Cognitive Radio Networks Under Outage Constraint of Multiple Primary Users and Transmit Power Constraint of Secondary User

Hung Tran (National Institute of Education Management, Vietnam); Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden); Chan Thai (IFSTTAR, France)

[11B-5] Decomposition Analysis with Layered Structure for Cognitive Network Resources

Qin Liu (Xidian University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

[11B-6] Overlap Regions and Grey Model-Based Approach for Interference Avoidance in Cognitive Radio Networks

Thao Quach (University Bordeaux I, France); Mohamed Aymen Chalouf (IRISA Lab -University of Rennes I, France); Hicham Khalife (Thales Communications & Security, France); Dramane Ouattara (Labri, France); Francine Krief (University of Bordeaux, France)

Invited Session : Cyber-Physical Systems, Networks, and Applications

Chair : Prof. Kyung-Joon Park (DGIST, Korea)

[Invited-1] FASE: Fast Authentication System for E-health

Mungyu Bae (Korea University, Korea); Suk Kyu Lee (Korea University, Korea); Seungho Yoo (Korea University, Korea); Hwangnam Kim (Korea University, Korea)

[Invited-2] Adaptive Tuning of IEEE 802.11e EDCA for Medical-Grade QoS

Sunghwa Son (Daegu Gyeongbuk Institute of Science & Technology, Korea); Kyung-Joon Park (DGIST, Korea); Eun-Chan Park (Dongguk University, Korea)

[Invited-3] Adaptive Beacon Rate Control Algorithm for Vehicular Ad-Hoc Networks

Hoa-Hung Nguyen (Pusan National University, Korea); Han-You Jeong (Pusan National University, Korea)

[Invited-4] Efficient Resource Allocation for M2M Half Duplex FDD (H-FDD) Systems

Jihwan P. Choi (Daegu Gyeongbuk Institute of Science and Technology, Korea); Jaesub Shin (Daegu Gyeongbuk Institute of Science & Technology (DGIST), Korea); Jungwon Lee (Samsung US R&D Center, USA); Ji-Woong Choi (DGIST, Korea)

[Invited-5] A Lightweight Prefix-based Routing for Content-Centric Networking

Sung-Won Lee (Ajou University, Korea); Jisoo Ha (Ajou University, Korea); Young-Bae Ko (Ajou University, Korea)

July 4, 2013 (Thursday)

16:00-18:20

Session 12A : Visible Light Communication

Chair : Prof. Seung Hyong Rhee (Kwangwoon University, Korea)

[12A-1] Receiver Initiated ARQ Scheme for LED-ID Link Switching

Nam Tuan Le (Kookmin university, Korea); Yeong Min Jang (Kookmin University, Korea)

[12A-2] Broadcasting MAC Protocol for IEEE 802.15.7 Visible Light Communication

Nam Tuan Le (Kookmin university, Korea); Yeong Min Jang (Kookmin University, Korea)

[12A-3] Color-Independent OFDM-based Visible Light Communication

Pankaz Das (Kookmin University, Korea); Youngil Park (Kookmin University, Korea); Ki-Doo Kim (Kookmin University, Korea)

[12A-4] Indoor Optical Wireless Communications Employing Corner Cube Retroreflector for Health Monitoring System

Wasinee Noonpakdee (Thammasat University, Thailand)

[12A-5] Iterative Node Localization for Intelligent Street Lighting

Natasja Jovanovic (Eindhoven University of Technology, The Netherlands); Johan J. Lukkien (Eindhoven University of Technology, The Netherlands); Richard Verhoeven (Eindhoven University of Technology, The Netherlands); Zharko Aleksovski (Philips Research, The Netherlands)

[12A-6] Throughput Analysis of TCP Over Visible Light Communication Indoor Networks

Vuong Mai (The University of Aizu, Japan); Truong Cong Thang (The University of Aizu, Japan); Anh T. Pham (The University of Aizu, Japan)

[12A-7] Joint Scheduling and Rate Allocation for IEEE 802.15.7 WPAN System

Ratan Kumar Mondal (Kookmin University, Korea); Nirzhar Saha (Kookmin University, Korea); Yeong Min Jang (Kookmin University, Korea)

Session 12B : MANET

Chair : Prof. Akira Tanaka (Tokyo National College of Technology, Japan)

[12B-1] A Virtual-Force Based Multicast Routing Algorithm for Mobile Ad-hoc Networks

Murali Parameswaran (Birla Institute of Technology and Science, Pilani, India); Vatsal Rastogi (Birla Institute of Technology and Science, Pilani, India); Chittaranjan Hota (Birla Institute of Technology & Science, Pilani, Hyderabad Campus, India)

[12B-2] A Community-Based Routing Algorithm for Opportunistic Networks

Xuebin Ma (Inner Mongolia University, P.R. China); Xiangyu Bai (Inner Mongolia University, P.R. China)

[12B-3] Latency Avoidance by Route Assumption for Reactive Routing Protocols

Thomas Roland Finke (Heilbronn University, Germany); Kilian Klaric (University of Applied Sciences Heilbronn, Germany); Juergen Schroeder (Heilbronn University, Germany); Sebastian Schellenberg (Ilmenau University of Technology, Germany); Markus Hager (Ilmenau University of Technology, Germany); Jochen Seitz (Technische Universitaet Ilmenau, Germany)

[12B-4] A Mechanism to Improve Spatiality in Directional MAC for Wireless Ad-Hoc Networks

Md Nasre Alam (Inha University, Korea); Md Hussain (Inha University, Korea); Md. Humayun Kabir (Inha University, Korea); Pervez Khan (Inha University, Korea); Kyung Sup Kwak (Inha University, Korea)

[12B-5] Optimized MAC and Network Cross Layer Protocol for OFDMA Based Ad-hoc Networks

Khanh Nguyen Quang (Hanoi University of Technology, Vietnam); Van Duc Nguyen (Hanoi University of Technology, Vietnam); Nguyen Trung Dung (Ha Noi University of Science and Technology, Vietnam)

[12B-6] Overhead Analysis on Beacon Broadcasting for Self-Organizing MIMC Ad-hoc Networks

Do-Yuon Kim (Ajou University, Korea); Young-June Choi (Ajou University, Korea); Kyung-yul Cheon (ETRI(Electronics and Telecommunications Research Institute), Korea); Chang-Joo Kim (Electronics and Telecommunications Research Institute, Korea)

[12B-7] The Impact of Host Name Hashing on Name Resolution Traffic

Sebastian Schellenberg (Ilmenau University of Technology, Germany); Amirhossein Saliminia (Communication Networks Group Ilmenau University of Technology, Germany); Jochen Seitz (Technische Universitaet Ilmenau, Germany); Thomas Roland Finke (Heilbronn University, Germany); Juergen Schroeder (Heilbronn University, Germany)

Session 12C : Future Network III

Chair : Prof. Pongpisit Wuttidittachotti (King Mongkut's University of Technology North Bangkok, Thailand)

[12C-1] Service-adaptive Functional Architecture in M2M Communications

Sung-Hyup Lee (Korea Communications Agency, Korea); KyoungKeun Kim (Korea Communications Agency, Korea); WonGyu

Jang (Korea Communications Agency, Korea); Anh-Ngoc Le (Electric Power University, Vietnam)

[12C-2] A Relaxing Multi-Constraint Routing Algorithm by Considering QoS Metrics Priority for Wired Network

Teerapat Sanguankotchakorn (Asian Institute of Technology, Thailand); Surabodi Maneepong (Asian Institute of Technology, Thailand); Nibuhiko Sugino (Tokyo Institute of Technology, Japan)

[12C-3] Domain Classification for Celebrities Using Spreading Activation and Reasoning on Semantic Network

Dongsheng Wang (Korea University, P.R. China); Kyunglag Kwon (Korea University, Korea); In-Jeong Chung (Korea University, Korea)

[12C-4] Orchestration in Distributed Web-of-Objects for Creation of User-centered IoT Service Capability

Il Young Chong (Hankuk University of Foreign Studies, Korea); Sanghum Lee (Hankuk University of Foreign Studies, Korea); Ilyoung Chong (Hankuk University of Foreign Studies, Korea)

[12C-5] Optical Multimedia Access Transmission and Channel Bandwidth Reduction Using Compressive Sensing Technique

Yong-Yuk Won (Yonsei University, Korea); YoungJae Kwon (Yonsei University, Korea); Chiteuk Ahn (Electronics and Telecommunications Research Institute, Korea)

[12C-6] An Antenna Control Mechanism for Distributed Antenna Systems Over High-Speed Railway Communications

Hung-Hsiang Wang (Industrial Technology Research Institute, Taiwan); Hsin-An Hou (Industrial Technology Research Institute, Taiwan); Jyh-Cheng Chen (National Chiao Tung University, Taiwan)

[12C-7] Assessment of Quality of Experience for Web Browsing-As Function of Quality of Service and Content Factor

Le Thu Nguyen (Massey University, New Zealand); Richard J Harris (Massey University, New Zealand); Amal Punchihewa (Massey University, New Zealand)

July 5, 2013 (Friday)

09:20-11:20

Session 13A : Mobile Network II

Chair : Prof. Hans-Juergen Zepernick (Blekinge Institute of Technology, Sweden)

[13A-1] Adaptive Allocation for Usable Frequency in FFR Based Femtocell Network Environment

Jeong Gon Kim (Korea Polytechnic University, Korea); Won Geon Bae (Korea Polytechnic University, Korea)

[13A-2] Distance-Based Interference Coordination for Device-to-Device Communications in Cellular Networks

Quang Duong (Soongsil University, Korea); Oh-Soon Shin (Soongsil University, Korea)

[13A-3] Joint Resource Allocation and Path Selection in Network Coding-Based OFDMA Relay Networks

Ho Young Hwang (Kwangwoon University, Korea); Eol Choi (Kwangwoon University, Korea); Do-Haeng Lee (Kwangwoon University, Korea); Meng Chen (Kwangwoon University, Korea)

[13A-4] Analysis and Modeling of Dynamic Capacity Provisioning Problem for a Heterogeneous Data Center

Shuo Zhang (National University of Defense Technology, P.R. China); Yaping Liu (National University of Defense Technology, P.R. China); Baosheng Wang (National University of Defense Technology, P.R. China); Ruixin Zhang (Academy of National Defense Information, P.R. China)

[13A-5] Performance Evaluation of Downlink Scheduling Algorithms for Video/Voice Transport over Wireless Networks

Anbin Kim (Hankuk University of Foreign Studies, Korea); Chanhong Park (Hankuk University of Foreign Studies, Korea); Seong-Ho Jeong (Hankuk University of Foreign Studies, Korea)

[13A-6] Tool-Driven Strategies for Resource Provisioning of Single-Tier Web Applications in Clouds

Huynh Nguyen (Ho Chi Minh City University of Technology, Vietnam); Thoai Nam (Ho Chi Minh City University of Technology, Vietnam)

Session 13B : Future Network IV

Chair : Prof. Sangchul Kim (Kookmin University, Korea)

[13B-1] Transmission Analysis of OFDM Millimeter-Wave Radio-over-Fiber System

Tam Thi Hoang (Waseda University, Japan); Mitsuji Matsumoto (Waseda University, Japan)

[13B-2] End-Point Detecting System for the Etching Process

Sang-Chul Kim (Kookmin University, Korea)

[13B-3] Performance Evaluation of RESTful Web Services and AMQP Protocol

Joel Fernandes (Instituto de Telecomunicações, University of Beira Interior, Portugal); Ivo Lopes (Instituto de Telecomunicações, University of Beira Interior, Portugal); Joel J. P. C. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal); Sana Ullah (King Saud University, Saudi Arabia)

[13B-4] A Peer to Peer Social Networking Service Exploiting Triangle Relationship Among Friends

Hyungjin Kim (University of Kookmin, Seoul, Korea); Sanghwan Lee (Kookmin University, Korea)

[13B-5] Bandwidth-aware Virtual Machines Allocation for High Performance Communication-intensive Applications

Loc Huynh (Ho Chi Minh City University of Technology, Vietnam); Thoai Nam (Ho Chi Minh City University of Technology, Vietnam)

[13B-6] A Dynamic Hi-CAST Protocol for Safety Message Dissemination in VANET

Ihn-Han Bae (Catholic University of Daegu, Korea)