

2013 IEEE 10th Consumer Communications and Networking Conference

(CCNC 2013)

**Las Vegas, Nevada, USA
11 – 14 January 2013**



**IEEE Catalog Number: CFP13CCN-PRT
ISBN: 978-1-4673-3131-9**

CCNC 2013- Work-in-Progress: The 10th Annual IEEE CCNC- Work-in-Progress

CCNC'13: 2013 IEEE 10th Consumer Communications and Networking Conference (CCNC)

CCNC'2013 - Demos: The 10th Annual IEEE Consumer Communications and Networking Conference - Demos

CCNC'2013 CeHPSA Workshop: 3rd IEEE International Workshop on Consumer eHealth Platforms, Services and Applications 2013

First Workshop on People Centric Sensing and Communications 2013: First Workshop on People Centric Sensing and Communications 2013

IoTCoMM: Internet of Things: RFIDs, WSNs and beyond

Window-based Streaming Video-on-Demand Transmission on BitTorrent-Like Peer-to-Peer Networks

Mario E. Rivero-Angeles (Instituto Politecnico Nacional, Mexico), Gerardo Rubino (INRIA, France), Ivan omar Olguín Torres (Unidad Profesional Interdisciplinaria de Ingeniería y Tecnologías Avanzadas del IPN, Mexico), Luis Antonio Martinez (UPIITA - IPN, Mexico)

1

Hamming DHT: Taming the Similarity Search

Rodolfo da Silva Villaca (State University of Campinas (UNICAMP), Brazil), Luciano Bernardes de Paula (IFSP, Brazil), Rafael Pasquini (Federal University of Uberlândia - UFU, Brazil), Mauricio Ferreira Magalhaes (State University of Campinas, Brazil)

7

A Hybrid Peer Selection Scheme for Enhanced Network and Application Performances

Xu Zhang (University of Surrey, United Kingdom), Ning Wang (University of Surrey, United Kingdom), Michael P. Howarth (University of Surrey, United Kingdom)

13

Hincnet: Quick Content Distribution With Priorities and High Incentives

Debessay Fesehay Kassa (University of Illinois at Urbana-Champaign, USA), Klara Nahrstedt (University of Illinois at Urbana-Champaign, USA)

22

Dual-Metric Hybrid Protocol for Application Level Multicast for Live Video Streaming

Chai Kiat Yeo (Nanyang Technological University, Singapore), Bu Sung Lee (Nanyang Technological University, Singapore), Ing Yann Soon (Nanyang Technological University, Singapore), Yang Xia (Nanyang Technological University, Singapore), Zoebir Bong (Nanyang Technological University, Singapore), Yuanyuan Mao (Nanyang Technological University, Singapore)

31

Low Complexity Independent Multi-View Video Coding

Hany Hussein (Egypt-Japan University for Science and Technology, Japan), Mostafa El-Khmy (Alexandria University, Faculty of Engineering, Egypt), Farhad Mehdipour (Kyushu University, Japan), Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)

37

Plane Segmentation and Decimation of Point Clouds for 3D Environment Reconstruction

Lingni Ma (Eindhoven University of Technology, The Netherlands), Raphael J.J. Favier (Eindhoven University of Technology, The Netherlands), Luat Do (Eindhoven University of Technology, The Netherlands), Egor Bondarev (Eindhoven University of Technology, The Netherlands), Peter H.N. de With (Eindhoven University of Technology, The Netherlands)

Interactive Manipulation and Visualization of a Deformable 3D Organ Model for Medical Diagnostic

50

Hyong-Euk Lee (Advanced Media Lab, Samsung Advanced Institute of Technology, Korea), Nahyup Kang (Samsung Advanced Institute of Technology, Samsung Electronics, Korea), Jae-Joon Han (Samsung Advanced Institute of Technology, Korea), Kyung Hwan Kim (Samsung Advanced Institute of Technology, Korea), James D. K. Kim (Samsung Advanced Institute of Technology, Korea), Changyeong Kim (Samsung Advanced Institute of Technology, Korea)	
<i>Monitoring for Disease Progression via Mathematical Time-series Modeling</i> Ha-Young Kim (SAIT, Samsung Electronics, Korea), Hye Jin Kam (SAIT, Samsung Electronics, Korea), Jihyun Lee (SAIT, Samsung Electronics, Korea), Sanghyun Yoo (SAIT, Samsung Electronics, Korea), Kyoung-Gu Woo (SAIT, Samsung Electronics, Korea), Jai Sung Noh (Ajou University School of Medicine, Korea), Seungmin Yoo (Ajou University School of Medicine, Korea)	56
<i>Real Life Applicable Fall Detection System Based on Wireless Body Area Network</i> Woon-Sung Baek (Chosun University, Korea), Dong-Min Kim (Chosun University, Korea), Faisal Bashir (Chosun University, Korea), Jae-Young Pyun (Chosun University, Korea)	62
<i>On-board Processing of Acceleration Data for Real-time Activity Classification</i> Sangil Choi (University of Nebraska at Omaha, USA), Richelle LeMay (University of Nebraska at Omaha, USA), Jong-Hoon Youn (University of Nebraska - Omaha, USA)	68
<i>Energy Efficiency of Collaborative OFDMA Mobile Clusters</i> Zheng Chang (University of Jyväskylä, Finland), Tapani Ristaniemi (University of Jyväskylä, Finland)	74
<i>Towards Energy-Efficient Cooperative Routing Algorithms in Wireless Networks</i> Yu Wang (Xi'an Jiaotong University, P.R. China), Xinyu Yang (Xi'an Jiaotong University, P.R. China), Shusen Yang (Imperial College London, United Kingdom), Wei Yu (Towson University, USA), Sulabh Bhattarai (Towson University, USA), Dan Shen (Intelligent Fusion Technology, USA), Genshe Chen (Intelligent Fusion Technology, Inc, USA)	79
<i>On Effective Data Aggregation Techniques in Host-based Intrusion Detection in MANET</i> Difan Zhang (Towson University, USA), Linqiang Ge (Computer and Information Sciences, Towson University, USA), Rommie Hardy (Army Research Lab, USA), Hanlin Zhang (Towson University, USA), Wei Yu (Towson University, USA), Robert J Reschly, Jr. (US Army Research Laboratory, USA)	85
<i>Energy-Efficient Base-Station Topologies for Green Cellular Networks</i> Won-Yong Shin (Dankook University, Korea), Hyo Seok Yi (Harvard university, USA), Vahid Tarokh (Harvard University, USA)	91
<i>2D Sliced Packet Buffer with Traffic Volume and Buffer Occupancy Adaptation for Power Saving</i> Kenzo Okuda (Osaka City University, Japan), Shingo Ata (Osaka City University, Japan), Yasuto Kuroda (Renesas Electronics Corporation, Japan), Yuji Yano (Renesas Electronics Corporation, Japan), Hisashi Iwamoto (Renesas Electronics Corporation, Japan), Kazunari Inoue (Osaka University, Japan), Ikuo Oka (Osaka City University, Japan)	97
<i>Production Features for Detection of Shouted Speech</i> Vinay Kumar Mittal (International Institute of Information Technology, Hyderabad, India), Yegnanarayana B. (International Institute of Information Technology, Hyderabad, India)	106
<i>Everyday Mobility Context Classification using Radio Beacons</i> Minyoung Mun (SAIT, Samsung Eletronics, Korea)	112
<i>Echo State Queueing Network: a new reservoir computing learning tool</i> Sebastián Basterrech (INRIA Rennes, France), Gerardo Rubino (INRIA, France)	118
<i>Mobile Applications and Algorithms to Facilitate Electric Vehicle Deployment</i> Yuhuan Du (University of Texas at Austin, USA), Gustavo de Veciana (The University of Texas at Austin, USA)	130

<i>PIOS: A Platform-Independent Offloading System for a Mobile Web Environment</i> Sehoon Park (Seoul National University, Korea), Qichen Chen (Seoul National University, Korea), Heon Y. Yeom (Seoul National University, Korea)	137
<i>Instant Search-based Indoor Localization</i> Truc Le (University of Missouri, USA), Nam Tuan Nguyen (University of California, Los Angeles, USA), Thong Doan (Ho Chi Minh University of Science, Vietnam), Han Dinh (Ho Chi Minh University of Science, Vietnam)	143
<i>Do Android Users Write About Electric Sheep? Examining Consumer Reviews in Google Play</i> Elizabeth Ha (School of Information, UC Berkeley, USA), David Wagner (UC Berkeley, USA)	149
<i>CoCam: A Collaborative Content Sharing Framework Based on Opportunistic P2P Networking</i> Eyal Toledano (MIT Media Lab, USA), Henry Holtzman (MIT Media Lab, USA), Andrew Lippman (MIT Media Laboratory, USA), Federico Casalegno (MIT, USA), Dan Sawada (Massachusetts Institute of Technology, USA)	158
<i>Denial of Convenience Attack to Smartphones Using a Fake Wi-Fi Access Point</i> Erich Dondyk (University of Central Florida, USA), Cliff Zou (University of Central Florida, USA)	164
<i>QoE-based Resource Reservation for Unperceivable Video Quality Fluctuation during Handover in LTE</i> Mohammed Shehada (DOCOMO Communications Laboratories Europe GmbH, Germany), Bo Fu (DOCOMO Euro-Labs, Germany), Srisakul Thakolsri (DoCoMo Euro-Labs, Germany), Wolfgang Kellerer (Technische Universität München, Germany)	171
<i>An Adaptive TCP Congestion Control having RTT-Fairness and Inter-Protocol Friendliness</i> Yohei Nemoto (Waseda University, Japan), Kazumine Ogura (University of WASEDA, Japan), Jiro Katto (Waseda University, Japan)	178
<i>Prototype Implementation of a Visual Communication System Employing Video Imagery</i> Scott Kuzdeba (BAE Systems, USA), Alexander M. Wyglinski (Worcester Polytechnic Institute, USA), Brandon Hombs (BAE Systems, USA)	184
<i>Utility Function for Predicting IPTV Quality of Experience Based on Delay in Overlay Networks</i> Imad Abdeljaouad (University of Ottawa, Canada), Ahmed Karmouch (University of Ottawa, Canada)	190
<i>A Multidimensional QoE Monitoring System for Audiovisual and Haptic Interactive IP Communications</i> Eiichi Isomura (Nagoya Institute of Technology, Japan), Shuji Tasaka (Nagoya Institute of Technology, Japan), Toshiro Nunome (Nagoya Institute of Technology, Japan)	196
<i>Analysis of Synchronization Issues for Live Video- Context Transmission Service</i> Houssein Wehbe (Institut Mines-TELECOM, TELECOM Bretagne, France), Ahmed Bouabdallah (Institut Mines-Telecom - Telecom Bretagne, France), Bruno Stevant (Telecom Bretagne, France), Usama Mir (Institut Mines-Telecom - Telecom Bretagne, France)	203
<i>Perceptual Quality Driven Cross-Layer Optimization for Wireless Video Streaming</i> Pinghua Zhao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Yanwei Liu (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Ruixiao Yao (Institute of Acoustics, Chinese Academy of Sciences, P.R. China), Song Ci (University of Nebraska-Lincoln, USA), Hui Tang (IOA, Chinese Academy of Sciences, USA)	210
<i>Dynamic Media Streaming with Predictable Reliability and Opportunistic TCP-Friendliness</i> Manuel Gorius (Saarland University, Germany), Yongtao Shuai (Saarland University, Germany), Thorsten Herfet (Saarland University, Germany)	216

<i>Estimation of QoE of Video Traffic using a Fuzzy Expert System</i> Jeevan Pokhrel (Telecom Sud Paris, France), Bachar Wehbi (Montimage, France), Anderson Morais (Telecom SudParis, France), Ana Cavalli (INT Evry, France), Eric Allilaire (Vierling, France)	224
<i>Characterizing Netflix Bandwidth Consumption</i> Jim Martin (Clemson, USA), Yunhui Fu (Clemson University, USA), Nicholas Wourms (Clemson University, USA), Terry Shaw (Cable Television Laboratories, Inc., USA)	230
<i>Packet Wait Times in Voice over IP Wireless Reverse Links</i> Richard Framjee (The University of Texas at Arlington, USA), Jonathan Bredow (University of Texas at Arlington, USA)	236
<i>Experience with Collaborative Conferencing Applications in Named-Data Networks</i> Jun Wei (Huawei Technologies, USA), Duy D Nguyen (University of California, Santa Cruz, USA), J. J. Garcia-Luna-Aceves (PARC, USA), Kathleen Nichols (Pollere, Inc, USA)	241
<i>MOVi+: Opportunity Extension for Mobile Peer-to-peer Video on Demand</i> Hyun Lee (Gwangju Institute of Science and Technology, Korea), Jae-Yong Yoo (Gwangju Institute of Science and Technology(GIST), Korea), JongWon Kim (GIST (Gwangju Institute of Science & Technology), Korea)	247
<i>JURD: Joiner of Un-Readable Documents to Reverse Tokenization Attacks to Content- based Spam Filters</i> Igor Santos (DeustoTech, Spain), Carlos Laorden (DeustoTech, Spain), Borja Sanz (DeustoTech, Spain), Pablo Garcia Bringas (University of Deusto, Spain)	259
<i>Towards practical privacy-preserving Digital Rights Management for Cloud Computing</i> Ronald Petrlic (University of Paderborn, Germany), Nakul Joshi (University of Southern California, USA)	265
<i>Energy-Efficient Data Collection in Multiple Mobile Gateways WSN-MCN Convergence System</i> Fei Yin (RenesasMobile, P.R. China), Zhenhong Li (Renesas Mobile Corporation, P.R. China), Haifeng Wang (Renesas Mobile Corporation, P.R. China)	271
<i>Multi-Channel Multi-Path Video Transmission over Wireless Sensor Networks</i> Syed Muhammad Asad Zaidi (Korea Electronics Technology Institute, Korea), Jieun Jung (Korea Electronics Technology Institute, Korea), Byunghun Song (KETI, Korea), Hyung Su Lee (Korea Electronics Technology Institute, Korea), Hee Yong Youn (Sungkyunkwan University, Korea)	277
<i>Resource Management in Visual Sensor Networks using Nash Bargaining Solution in Generalized Fading</i> Olusegun O. Odejide (Air Force Research Laboratory (AFRL), USA), Elizabeth Bentley (Air Force Research Laboratory, USA), Lisimachos P Kondi (University of Ioannina, Greece), John D. Matyjas (Air Force Research Laboratory, USA)	283
<i>A Robust Wearable Health Monitoring System Based on WSN</i> Young Hwan Kim (KETI, Korea), Kuk Jin Jang (KETI, Korea), Seung-chul Lee (KETI, Korea), Chang Won Park (Korea Electronics Technology Institute, Korea), Hee Yong Youn (Sungkyunkwan University, Korea)	288
<i>Energy-Efficient Two-Dimensional Skyline Query Processing in Wireless Sensor Networks</i> Yohan Roh (SAIT, Samsung Electronics, Korea), In-Chul Song (KAIST, Korea), Joo Hyuk Jeon (SAIT, Samsung Electronics, Korea), Kyoung-Gu Woo (SAIT, Samsung Electronics, Korea), Myoung Ho Kim (Korea Advanced Institute of Science and Technology (KAIST), Korea)	294
<i>Impact of antenna directionality and energy harvesting rate on Neighbor Discovery in EH-IoTs</i> Shruti Devasenapathy (Delft University of Technology, The Netherlands), R Venkatesha Prasad (TU Delft - Delft University of Technology, The Netherlands), Vijay Sathyanarayana Rao (Delft University of Technology, The Netherlands), Ignas Niemegeers (TU Delft, The Netherlands)	302

<i>A Novel Clustering Paradigm for Key Pre-distribution: Toward a Better Security in Homogenous WSNs</i>	
Mohammad Rezaeirad (University of Louisiana at Lafayette (ULL), USA), Mahdi Orooji (Louisiana State University, USA), Sahar Mazloom (University of Louisiana at Lafayette, USA), Dmitri Perkins (University of Louisiana at Lafayette, USA), Magdy Bayoumi (University of Louisiana, USA)	308
<i>Selective Context Fusion Utilizing an Integrated RFID-WSN Architecture</i>	
Abdulrahman Abahsain (Queen's University, Canada), Ashraf E. Al-Faqih (Queen's University, Canada), Sharief M.A. Oteafy (Queen's University, Canada), Hossam S. Hassanein (Queen's University, Canada)	317
<i>Enabling decentralized microblogging through P2PVPNs</i>	
Pierre T St. Juste (University of Florida, USA), Heungsik Eom (University of Florida, USA), Kyungyong Lee (University of Florida, USA), Renato Figueiredo (University of Florida, USA)	323
<i>A Multidimensional Heuristic for Social Routing in Peer-to-Peer Networks</i>	
Shuo Jia (University of Florida, USA), Pierre T St. Juste (University of Florida, USA), Renato Figueiredo (University of Florida, USA)	329
<i>Distributed Autonomous Multi-Hop Vehicle-to-Vehicle Communications over TV White Space</i>	
Yutaka Ihara (TOYOTA InfoTechnology Center, Japan), Haris Kremo (Toyota InfoTechnology Center, Japan), Onur Altintas (Toyota InfoTechnology Center, Japan), Hideaki Tanaka (TOYOTA InfoTechnology Center, Japan), Masaaki Ohtake (The University of Electro-Communications, Japan), Takeo Fujii (The University of Electro-Communications, Japan), Chikara Yoshimura (Kyushu Institute of Technology, Japan), Keisuke Ando (Kyushu Institute of Technology, Japan), Kazuya Tsukamoto (Kyushu Institute of Technology, Japan), Masato Tsuru (Kyushu Institute of Technology, Japan), Yuji Oie (Kyushu Institute of Technology, Japan)	336
<i>Compressive Sensing Based Image Transmission for Multiuser V2X Communications</i>	
Satoshi Makido (Toyota Central R&D Labs., Inc., Japan), Masaki Takanashi (TOYOTA Central R&D Labs., Inc., Japan)	345
<i>Dynamic Service-Channels Allocation (DSCA) in Vehicular Ad-hoc Networks</i>	
Sung Jin Park (Georgia Institute of Technology, USA), Yusun Chang (Southern Polytechnic State University, USA), Faisal Ahmad Khan (Georgia Institute of Technology, USA), John A. Copeland (Georgia Institute of Technology, USA)	351
<i>Stability Analysis of Congestion Control Schemes in Vehicular Ad-hoc Networks</i>	
Neda Nasiriani (West Virginia University, USA), Yaser P. Fallah (West Virginia University, USA), Hariharan Krishnan (General Motors, USA)	358
<i>An Efficient Downlink Packet Scheduling Algorithm for Real Time Traffics in LTE Systems</i>	
Bin Liu (Beijing University of Posts and Telecommunications, P.R. China), Hui Tian (Beijing university of posts and telecommunications, P.R. China), Lingling Xu (Beijing University of Posts and Telecommunications, P.R. China)	364
<i>Managing Downlink Multi-User MIMO Transmission Using Group Membership</i>	
Osama Aboul-Magd (Hauwei Technologies, Canada), Uikun Kwon (Samsung Electronics, Korea), Youngsoo Kim (Samsung Electronics, Korea), Chunhui Zhu (Samsung Electronics, USA)	370
<i>Cooperative Precoding with Limited Feedback in Multi-user Cognitive MIMO Networks</i>	
Gui Xin (Beijing University of posts and telecommunications, P.R. China), Guixia Kang (Beijing University of Posts and Telecommunications, P.R. China), Ping Zhang (Wireless Technology Innovation Lab, Beijing University of Posts and Telecommunications, P.R. China)	376
<i>Impact of Network Coding on Delay and Throughput in Practical Wireless Chain Topologies</i>	
Martin Hundebøll (Aalborg University, Denmark), Stephan Alexander Rein (Aalborg University, Denmark), Frank H.P. Fitzek (Aalborg University, Denmark)	381

<i>Optimal Power Allocation for Coordinated Wireless Backhaul in OFDM Based Relay Systems</i>	
Bing Luo (Beijing University of Posts and Telecommunications, P.R. China), Jinxia Sun (CMCC, P.R. China), Wenyan Jin (CMCC, P.R. China)	393
<i>Decentralized Multi-Cell Beamforming with Base Station Cooperation</i>	
Siddharth Deshmukh (Kansas State University, USA), Sayak Bose (Kansas State University, USA), Bala Natarajan (Kansas State University, USA)	414
<i>A Structured Approach to Optimization of Energy Harvesting Wireless Sensor Networks</i>	
Nicholas Roseveare (Kansas State University, USA), Bala Natarajan (Kansas State University, USA)	420
<i>Interaction between isolated resonators in near field channel</i>	
Sang Joon Kim (Samsung, Korea), Seung Keun Yoon (Samsung, Korea), Uikun Kwon (Samsung Electronics, Korea)	426
<i>Cooperative Code-sharing for UMTS Femtocells</i>	
David Stynes (University College Cork, Ireland), Kenneth N Brown (University College Cork, Ireland), Eric Jul (Bell Labs, Alcatel-Lucent Ireland Ltd, Ireland)	432
<i>Minimizing Transmit Power for Cooperative Multicell System with Massive MIMO</i>	
Jinkyu Kang (Korea Advanced Institute of Science and Technology, Korea), Joonhyuk Kang (KAIST, Korea), Namjeong Lee (Samsung Advanced Institute of Technology, Korea), Byung Moo Lee (Samsung Advanced Institute of Technology, Korea), Jongho Bang (SAMSUNG, Korea)	438
<i>Design and Evaluation of RFID Counting Algorithms under Time-correlated Channels</i>	
Yulin Deng (The Chinese University of Hong Kong, Hong Kong), Wing Cheong Lau (The Chinese University of Hong Kong, Hong Kong), On Ching Yue (The Chinese University of Hong Kong, Hong Kong)	443
<i>AGC and ADC Effects on Receiver Performance in FDM based Narrowband Wireless Systems</i>	
Shusuke Narieda (Akashi National College of Technology, Japan)	449
<i>A Novel Network Coded Relay-Assisted Hybrid-ARQ Scheme</i>	
Yue Ma (Beijing University of Posts and Telecommunications, P.R. China), Lihua Li (Beijing University of Posts and Telecommunications, P.R. China), Jin Jin (Beijing University of Posts and Telecommunications, P.R. China), Yijing Liu (Beijing University of Posts and Telecommunications, P.R. China)	455
<i>GF(q) LDPC decoder design for FPGA implementation</i>	
Wojciech Sulek (Silesian University of Technology, Poland), Marcin Kucharczyk (Silesian University of Technology, Poland), Grzegorz Dziwoki (Silesian University of Technology, Poland)	460
<i>Channel-Adaptive Sensing Strategy for Cognitive Radio Ad Hoc Networks</i>	
Yuan Lu (North Carolina State University, USA), Alexandra Duel-Hallen (North Carolina State University, USA)	466
<i>Low-Complexity Optimal CSI Feedback in LTE</i>	
Jaspreet Singh (Samsung Telecommunications America, USA), Zhouyue Pi (Samsung Telecommunications America, USA), Hoang Nguyen (Samsung Telecom America, USA)	472
<i>A Novel Wireless Network Access Selection Scheme For Heterogeneous Multimedia Traffic</i>	
Abolfazl Mehdodniya (Tohoku University, Japan), Faisal Kaleem (Florida International University, USA), Kang Yen (Florida International University, USA), Fumiyuki Adachi (Tohoku University, Japan)	485
<i>Asymmetric Resource Allocation for OFDMA Networks with Collaborative Relays</i>	
Zheng Chang (University of Jyväskylä, Finland), Tapani Ristaniemi (University of Jyväskylä, Finland)	490
<i>Digital Pheromone Based Patrolling Algorithm in Wireless Sensor and Actuator Networks</i>	
Yanping Zhang (The University of Alabama, USA), Yang Xiao (The University of Alabama, USA)	496

<i>Group Size Studies for Collaborated Sensors/Robots</i> Bo Fu (The University of Alabama, USA), Yang Xiao (The University of Alabama, USA)	502
<i>Goodput Improvement for Multipath TCP by Congestion Window Adaptation in Multi-Radio Devices</i> Dizhi Zhou (University of New Brunswick, Canada), Wei Song (University of New Brunswick, Canada), Minghui Shi (Industry Canada, Canada)	508
<i>Min-Cut Based Partitioning for Urban LTE Cell Site Planning</i> Alexander Engels (RWTH Aachen University, Germany), Michael Reyer (RWTH Aachen University, Germany), Andreas Steiger (RWTH Aachen University, Germany), Rudolf Mathar (RWTH Aachen University, Germany)	515
<i>Congestion-based Automatic Calling for Improving Call Establishment in VoLTE</i> Satoshi Komorita (KDDI R&D Laboratories Inc., Japan), Yoshinori Kitatsuji (KDDI R&D Laboratories Inc., Japan), Hidetoshi Yokota (KDDI Labs, Japan)	521
<i>Formation of Cooperative Cluster for Coordinated Transmission in Multi-Cell Wireless Networks</i> Jung-Min Moon (Korea Advanced Institute of Science and Technology, Korea), Dong-Ho Cho (Korea Advanced Institute of Science and Technology, Korea)	528
<i>Power Allocation Framework for OFDMA-based Relay-Enhanced Cellular Networks</i> Yalda Farazmand (University of Manitoba, Canada), Attahiru S. Alfa (University of Manitoba, Canada)	534
<i>P-ARQ: Controllable PLL ARQ method for wireless low power communication</i> Hyosun Hwang (Samsung Electronics, Korea), Jaesup Lee (Samsung Electronics Co., Ltd, Korea), ChiSung Bae (Samsung Electronics, Korea), Young-Jun Hong (Samsung Electronics, Korea), Nak-Myeong Kim (Ewha woman university, Korea)	540
<i>Cost-efficient Multicast Over Coded Packet Wireless Networks Using Data Envelopment Analysis</i> Adeyemi Abel Ajibesin (University of Cape Town, South Africa), Neco Ventura (University of Cape Town, South Africa), Alexandru Murgu (University of Cape Town, South Africa), H Anthony Chan (Huawei Technologies, USA)	546
<i>WFICC: A New Mechanism for Provision of QoS and Congestion Control in WiMAX</i> Fatima Furqan (University of Technology, Sydney, Australia), Doan B Hoang (University of Technology, Sydney, Australia)	552
<i>A Cognitive Link Adaptation Strategy with Differentiated Responses on Wi-Fi System-on-Chip</i> Taeyoung Lee (Samsung Electronics. Co., Ltd, Korea), Myounghwan Lee (Samsung Electronics, Korea), Jaeun Kang (Samsung Electronics, Korea), Kyungik Cho (Samsung Electronics, Korea), Chil-Youl Hacky Yang (Samsung Electronics, Korea), Scott Seongwook Lee (DM R&D Center of Samsung Electronics, Korea)	559
<i>Priority Inversion and Queue Management for 802.11 Priority WLANs</i> William L. Formyduval (North Carolina State University, USA), David Thuente (North Carolina State University, USA)	565
<i>Design and Analysis of a Cluster-based Calcium Signaling Network Model</i> Yiqun Yang (Nanyang Technological University, Singapore), Chai Kiat Yeo (Nanyang Technological University, Singapore)	574
<i>Transparent Cross-Layer Solutions for Throughput Boost in Cognitive Radio Networks</i> Muhammad Faisal Amjad (University of Central Florida, USA), Baber Aslam (National University of Sciences and Technology, Pakistan), Cliff Zou (University of Central Florida, USA)	580
<i>A Nash-Stackelberg Multiplicative Weighted Imitative CODIPAS-RL Scheme</i>, + Muhammad Shoaib Saleem (Telecom & Management Sud Paris, France), Eric Renault (TELECOM & Management SudParis (ex GET-INT), France)	
<i>Progressive Equalizer Matrix Calculation using QR Decomposition in MIMO-OFDM Systems</i>	593

Peng Xue (Samsung Advanced Institute of Technology (SAIT), Korea), Kitaek Bae (Samsung Advanced Institute of Technology, Korea), Kyeongyeon Kim (Samsung Advanced Institute of Technology, Korea), Ho Yang (Samsung Advanced Institute of Technology, Korea)	
<i>Estimation of Overlay Link Quality from Previously Observed Link Qualities</i> Weihua Sun (Nara Institute of Science and Technology, Japan), Naoki Shibata (Shiga University, Japan), Keiichi Yasumoto (Nara Institute of Science and Technology, Japan), Masaaki Mori (Shiga University, Japan)	597
<i>Coordinator Assisted Passive Discovery for Mobile End Devices in IEEE 802.15.4</i> Faisal Bashir (Chosun University, Korea), Woon-Sung Baek (Chosun University, Korea), Pranesh Sthapit (Chosun University, Korea), Dinesh Pandey (Chosun University, Korea), Jae-Young Pyun (Chosun University, Korea)	601
<i>Accelerating E-Commerce Sites in the Cloud</i> Wei Hao (Northern Kentucky University, USA), James Walden (Northern Kentucky University, USA), Chris Trenkamp (Northern Kentucky University, USA)	605
<i>CCN Networking Architecture for Mobile Applications</i> Seongik Hong (Samsung Advanced Institute of Technology, Korea), Myeong-Wuk Jang (Samsung Advanced Institute of Technology, Korea), Byoung-Joon BJ Lee (Samsung Advanced Institute of Technology, Korea)	609
<i>Channel State Dependent Adaptive Spatial Spectrum Sensing Algorithm for Cognitive Radios</i> Muhammad Iqbal (National University of Sciences and Technology, Pakistan), Abdul Ghafoor (National University of Sciences and Technology, Pakistan), Sajjad Hussain (MAJU, Pakistan), Rizwan Ghaffar (University of Waterloo, Canada)	613
<i>A fuzzy based credibility evaluation of recommended trust in pervasive computing environment</i> Naima Iltaf (National University of Sciences and Technology, Pakistan), Abdul Ghafoor (National University of Sciences and Technology, Pakistan)	617
<i>Photo-Realistic 3D Reconstruction of Large-Scale and Arbitrary-Shaped Indoor Environments</i> Egor Bondarev (Eindhoven University of Technology, The Netherlands), Peter H.N, de With (Eindhoven University of Technology, The Netherlands), Francisco Heredia (Eindhoven University of Technology, The Netherlands), Raphael J.J. Favier (Eindhoven University of Technology, The Netherlands), Lingni Ma (Eindhoven University of Technology, The Netherlands)	621
<i>Energy Efficiency Analysis in Device-to-Device Communication Underlying Cellular Networks</i> Xianyan Qiu (Xi'an Jiaotong University, P.R. China), Liao Xuewen (Xi'an Jiaotong University, P.R. China), Ke Dong (Xi'an Jiaotong University, P.R. China), Shihua Zhu (Xi'an Jiaotong University, P.R. China)	625
<i>Multi-Stream Viewer: Simultaneous Viewing System for Streaming Videos with the Time Tag</i> Kazuki Nakamura (University of Doshisha, Japan), Ryo Tanigawa (Doshisha University, Japan), Hideki Shimada (Doshisha University, Japan), Kenya Sato (Doshisha University, Japan)	629
<i>PIOS: A Platform-Independent Offloading System for a Mobile Web Environment</i> Sehoon Park (Seoul National University, Korea), Qichen Chen (Seoul National University, Korea), Heon Y. Yeom (Seoul National University, Korea)	633
<i>Host-based Distributed Mobility Management: Example of Traffic Offloading</i> Jong-Hyoun Lee (TELECOM Bretagne, France), Jean-Marie Bonnin (Institut Mines Telecom / Telecom Bretagne, France), Xavier Lagrange (Institut Mines Telecom / Telecom Bretagne, France)	637
<i>Cooperative MAC protocol with distributed relay selection and physical rate adaptation</i> Hicham Slimani (INP/ENSEEIH-IRIT, University of Toulouse, France), Benoit Escrig (Université de Toulouse, France), Riadh Dhaou (IRIT/ENSEEIH, University of Toulouse, France), André-Luc Beylot (IRIT Toulouse, France)	641

<i>Performance Analysis of a Handover Mechanism for a Mobile Wireless Sensor Network</i> Qian Dong (Technical University of Dresden, Germany), Walteneagus Dargie (Technische Universität Dresden, Germany)	645
<i>Wake IQ: Using a Smartphone to Reduce Sleep Inertia</i> Michael Van Devender (University of Missouri, USA), Yi Shang (University of Missouri, USA)	649
<i>An Event-Driven Clustering-Based Technique for Data Monitoring in Wireless Sensor Networks</i> Attapol Adulyasas (University of Surrey, United Kingdom), Zhili Sun (University of Surrey, United Kingdom), Ning Wang (University of Surrey, United Kingdom)	653
<i>A New Posture Monitoring System for Preventing Physical Illness of Smartphone Users</i> Hosub Lee (Samsung Electronics, Korea), Sunjae Lee (Samsung Electronics, Korea), Young Sang Choi (Samsung Electronics, Korea), Youngwan Seo (Samsung Electronics, Korea), Eunsoo Shim (Samsung Electronics, Korea)	657
<i>A New Posture Monitoring System for Preventing Physical Illness of Smartphone Users</i> Hosub Lee (Samsung Electronics, Korea), Sunjae Lee (Samsung Electronics, Korea), Young Sang Choi (Samsung Electronics, Korea), Youngwan Seo (Samsung Electronics, Korea), Eunsoo Shim (Samsung Electronics, Korea)	661
<i>FARCREST: Euclidean Steiner Tree-based Cloud Service Latency Prediction System</i> Boon Ping Lim (MIMOS Berhad, Malaysia), Poh Kit Chong (MIMOS Berhad, Malaysia), Ettikan Kandasamy Karuppiah (MIMOS Bhd, Malaysia), Yaszrina Mohamad Yassin (Mimos Bhd, Malaysia), Amril Nazir (University College London, United Kingdom), Mohamed Farid Noor Batcha (Mimos Bhd, Malaysia)	665
<i>A fuzzy based credibility evaluation of recommended trust in pervasive computing environment</i> Naima Iltaf (National University of Sciences and Technology, Pakistan), Abdul Ghafoor (National University of Sciences and Technology, Pakistan)	669
<i>Energy Relaying in Mobile Wireless Sensor Networks</i> Seung Keun Yoon (Samsung, Korea), Sang Joon Kim (Samsung, Korea), Uikun Kwon (Samsung Electronics, Korea)	673
<i>MPEG Video Streaming Solution for Multihomed-Terminals in Heterogeneous Wireless Networks</i> Allen Lehopotse Ramaboli (University of Cape Town, South Africa), Olabisi Emmanuel Falowo (University of Cape Town, South Africa), H Anthony Chan (Huawei Technologies, USA)	677
<i>Improved Feature Representation for Robust Facial Action Unit Detection</i> Sudha Velusamy (SAIT India, Samsung India Software Operations, India), Viswanath Gopalakrishnan (Samsung India Software Operations Pvt Ltd, India), Balasubramanian Anand (Samsung India Software Operations Pvt Ltd, India), Pratibha Moogi (Samsung India Software Operation, India), Basant Pandey (Samsung India Software Ops Pvt Ltd, India)	681
<i>Focused Crawling for Building Web Comment Corpora</i> Melanie Neunerdt (RWTH, Germany), Bianka Trevisan (RWTH Aachen, Germany), Markus Niermann (RWTH Aachen, Germany), Rudolf Mathar (RWTH Aachen University, Germany)	685
<i>Analyzing the Coverage of the Single Frequency Broadcast Network for Handheld Receivers</i> Muhammad Moiz Anis (Telecom Bretagne, France), Xavier Lagrange (Institut Mines Telecom / Telecom Bretagne, France), Ramesh Mahendra Pyndiah (Institut Telecom/TELECOM Bretagne, France)	689
<i>MPEG Video Streaming Solution for Multihomed-Terminals in Heterogeneous Wireless Networks</i> Allen Lehopotse Ramaboli (University of Cape Town, South Africa), Olabisi Emmanuel Falowo (University of Cape Town, South Africa), H Anthony Chan (Huawei Technologies, USA)	693

<i>Improving Energy Efficiency of Data Communication in a Hybrid PKI-based Approach for WSNs</i> Omar Alfandi (University of Goettingen, Germany), Arne Bochem (University of Göttingen, Germany), Ansgar Kellner (University of Goettingen, Germany), Dieter Hogrefe (University of Goettingen, Germany)	697
<i>Smart Switch: Optimize for Green Cellular Networks</i> Qilin Fan (Tsinghua University, P.R. China), Xiaohu Chen (Tsinghua University, P.R. China), Hao Yin (Tsinghua University, P.R. China), Ran Liu (Huazhong University of Science and Technology, P.R. China)	701
<i>Fluid User Models for Personalized Mobile Apps: Overview of the BrightNotes System</i> Shoshana Loeb (Open Ventures LLC, USA)	705
<i>An Easy-to-Implement Dual Codebook Design for Multiuser MIMO Systems</i> Yue Ma (Beijing University of Posts and Telecommunications, P.R. China), Lihua Li (Beijing University of Posts and Telecommunications, P.R. China), Jin Jin (Beijing University of Posts and Telecommunications, P.R. China), Yucang Yang (Beijing University of Posts and Telecommunications, P.R. China)	709
<i>A New Posture Monitoring System for Preventing Physical Illness of Smartphone Users</i> Hosub Lee (Samsung Electronics, Korea), Sunjae Lee (Samsung Electronics, Korea), Young Sang Choi (Samsung Electronics, Korea), Youngwan Seo (Samsung Electronics, Korea), Eunsoo Shim (Samsung Electronics, Korea)	713
<i>A New PUCCH Resource Mapping Method in Inter-band TDD Carrier Aggregation Systems</i> Yang Lu (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China), Qin Mu (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China), Liu Liu (DOCOMO Beijing Communications Laboratories Co., Ltd, P.R. China), Mingju Li (DOCOMO Beijing Communication Laboratories Co., Ltd, P.R. China), Lan Chen (DOCOMO Beijing Communication Laboratories Co., Ltd, P.R. China), Kazuaki Takeda (NTT DOCOMO, Inc., Japan)	717
<i>Method For Fast Bits Estimation In Rate Distortion For Intra Coding Units In HEVC</i> Sumit Johar (STMicroelectronics Private Limited, India), Manoj Alwani (STMicroelectronics, India)	721
<i>Shim6 Assisted Mobility Scheme</i> Muhammad Mudassir Feroz (National University of Science and Technology, Pakistan), Dr. Adnan Kiani (School of Electrical Engineering and Computer Sciences - NUST, Pakistan)	725
<i>Mainstream Media vs. Social Media for Trending Topic Prediction - An Experimental Study</i> Aleksandre Lobzhanidze (University of Missouri, USA), Wenjun Zeng (University of Missouri, Columbia, USA), Paige Gentry (University of Missouri, USA), Angelique Taylor (University of Missouri, USA)	729
<i>An Implementation Study of Relay Selection Schemes for Energy Harvesting WSNs</i> T V Prabhakar (IISc, India), R Venkatesha Prasad (TU Delft - Delft University of Technology, The Netherlands), Akshay Uttama Nambi (Indian Institute of Science, India), Madhuri Iyer (CEDT, IISc, India), Ignas G.M.M. Niemegeers (Delft University of Technology, The Netherlands), Jamadagni (Indian Institute of Science, India)	733
<i>Precoding Optimization for Interference Cancellation in Multiuser Relay Networks for LTE-Advanced</i> Saransh Malik (Chonnam National University, Korea)	737
<i>Using SOMs and CoAP-RELOAD to Enable Autonomous Wide Area Sensor Networks</i> Jouni Mäenpää (Ericsson, Finland)	741
<i>BRAEVE: Stable and adaptive BSM rate control over IEEE802.11p vehicular networks</i>	741
Kazumine Ogura (University of WASEDA, Japan), Jiro Katto (Waseda University, Japan), Mineo Takai (University of California, Los Angeles, Japan)	
<i>Analysing IEEE 802.15.3c Protocol in Fi-Wi Hybrid Networks</i>	749

Venkatesha Prasad (Delft University of Technology, The Netherlands), Bien Quang (TU Delft, The Netherlands), Kishor Chandra (TU Delft, The Netherlands), Xueli An (Bell Labs, Alcatel-Lucent, Belgium), Huong Nguyen (Hanoi University of Technology, Vietnam)

TCP Differentiation using Version Identification and EDCA for Low-Delay Multimedia Streaming

Kazuhide Sonoda (Waseda University, Japan), Kazumine Ogura (University of WASEDA, Japan), Jiro Katto (Waseda University, Japan) 753

Enhanced Leakage-Based Precoding Schemes for Multiuser MIMO Downlink

Jin Jin (Beijing University of Posts and Telecommunications, P.R. China), Lihua Li (Beijing University of Posts and Telecommunications, P.R. China), Yue Ma (Beijing University of Posts and Telecommunications, P.R. China) 757

Localization of An Acoustic Source Using Smart Phones

Yue Wang (University of Missouri, USA), Liyang Rui (University of Missouri, USA), Wenjia Shi (University of Missouri, USA), Dominic K. C. Ho (University of Missouri - Columbia, USA), Yi Shang (University of Missouri, USA) 761

Study of Clear Channel Assessment Mechanism for ZigBee Packet Transmission under Wi-Fi Interference

Yong Tang (University of Ottawa, Canada), Zhipeng Wang (University of Ottawa, Canada), Tianyu Du (University of Ottawa, Canada), Dimitrios Makrakis (University of Ottawa, Canada), Hussein Mouftah (University of Ottawa, Canada) 765

Load balancing performance of dynamic SCell measurement period relaxing in LTE-A

Xiaoyu Duan (Beijing University of Posts and Telecommunications, P.R. China) 769

Wake IQ: Using a Smartphone to Reduce Sleep Inertia

Michael Van Devender (University of Missouri, USA), Yi Shang (University of Missouri, USA) 785

Energy Efficiency Analysis in Device-to-Device Communication Underlying Cellular Networks

Xianyan Qiu (Xi'an Jiaotong University, P.R. China), Liao Xuewen (Xi'an Jiaotong University, P.R. China), Ke Dong (Xi'an Jiaotong University, P.R. China), Shihua Zhu (Xi'an Jiaotong University, P.R. China) 793

An Energy-Efficient Network Implemented With Junos SDK

Hongsen Yu (Columbia University, USA), Vindya Wijeratne (Queen Mary, University of London, United Kingdom), Zhihong Cai (Juniper Networks, CNRD, P.R. China) 797

Progressive Equalizer Matrix Calculation using QR Decomposition in MIMO-OFDM Systems

Peng Xue (Samsung Advanced Institute of Technology (SAIT), Korea), Kitaek Bae (Samsung Advanced Institute of Technology, Korea), Kyeongyeon Kim (Samsung Advanced Institute of Technology, Korea), Ho Yang (Samsung Advanced Institute of Technology, Korea) 801

Delivery System and Receiver for Service-compatible 3DTV Broadcasting

GwangSoon Lee (ETRI, Korea) 805

Local Selected IP Traffic Offload Reducing Traffic Congestion within the Mobile Core Network

John Cartmell (InterDigital Communications Corp, USA), Bartosz Balazinski (InterDigital Communication Corp, USA), John McNally (InterDigital Communications Corp, USA) 809

<i>Performance Impact of Pilot Tone Randomization to Mitigate OFDM Jamming Attacks</i> Chowdhury Shahriar (Virginia Tech, USA), Robert McGwier (Virginia Tech, USA), T. Charles Clancy (Virginia Tech, USA).....	813
<i>PHY Front End Design for Emerging 60 GHz Multi-Gigabit Wireless Devices</i> Lochan Verma (Peraso Technologies Inc., Canada), Mohammad Fakharzadeh (Peraso Technologies Inc., Canada).....	817
<i>A New Posture Monitoring System for Preventing Physical Illness of Smartphone Users</i> Hosub Lee (Samsung Electronics, Korea), Sunjae Lee (Samsung Electronics, Korea), Young Sang Choi (Samsung Electronics, Korea), Youngwan Seo (Samsung Electronics, Korea), Eunsoo Shim (Samsung Electronics, Korea).....	821
<i>Depth Resampling for Mixed Resolution Multiview 3D Videos</i> Seok Lee (Samsung Electronics, Korea), Seungsin Lee (Samsung Electronics, Korea), Hochen Wey (Samsun Advanced Institute of Technology, Samsung Electronics Co., Ltd., Korea), Jaejoon Lee (Samsung Electronics, Korea), Dusik Park (Advanced Media Lab, SAIT, Samsung Electronics, Korea).....	827
<i>ContextController: Augmenting Broadcast TV with Real-Time Contextual Information</i> Robert Hemsley (MIT Media Lab, USA), Arlene Ducao (MIT, USA), Eyal Toledano (MIT Media Lab, USA), Henry Holtzman (MIT Media Lab, USA).....	833
<i>Bluetooth Positioning using RSSI and Triangulation Methods</i> Yapeng Wang (MPI-QMUL Information System Research Centre, Macao), Xu Yang (Macao Polytechnic Institute, Macao), Yutian Zhao (Beijing University of Posts and Telecommunications, P.R. China), Yue Liu (Queen Mary, University of London, United Kingdom), Laurie Cuthbert (Queen Mary, University of London, United Kingdom).....	837
<i>WeatherPlay</i> Arlene Ducao (MIT, USA), Yuzhao Ni (MIT, USA), Henry Holtzman (MIT Media Lab, USA), Robert Hemsley (MIT Media Lab, USA).....	843
<i>LLCPS: A New Security Framework Based On TLS For NFC P2P Applications In The Internet Of Things</i> Pascal Urien (T�el�ecom ParisTech, France).....	845
<i>Prototype for Design-time Secure and Trustworthy Service Composition</i> Bo Zhou (Liverpool John Moores University, United Kingdom), David Llewellyn-Jones (Liverpool John Moores University, United Kingdom), Qi Shi (Liverpool John Moores University, United Kingdom), Muhammad Asim (Liverpool John Moores University, United Kingdom), Madjid Merabti (Liverpool John Moores University, United Kingdom).....	847
<i>EVANS3: Home Appliance Control System with Appliance Authentication Framework Using Augmented Reality Technology</i> Shinya Mihara (Doshisha University, Japan), Kohei Kawai (Doshisha University, Japan), Hideki Shimada (Doshisha University, Japan), Kenya Sato (Doshisha University, Japan).....	849
<i>Prototypes of Opportunistic Wireless Sensor Networks Supporting Indoor Air Quality Monitoring</i> Petros Spachos (University of Toronto, Canada), Liang Song (University of Toronto, Canada), Dimitrios Hatzinakos (University of Toronto, Canada).....	851
<i>TrafficCam: Sharing Traffic Information based on Dynamic IPv6 Multicast Group Assignment using Smartphone Sensors</i> Yohei Kanemaru (Nara Institute of Science and Technology, Japan), Satoru Noguchi (Nara Institute of Science and Technology, Japan), Atsuo Inomata (NARA Institute of Science and Technology, Japan), Kazutoshi Fujikawa (Nara Institute of Science and Technology, Japan).....	853
<i>GEMS: SMS-based app store for Growth Economies</i> Daniel Risi (Nokia Institute of Technology, Brazil), Mauro Ricardo da S Te�ofilo (Nokia Institute of Technology, Brazil), Thomaz Silva (Nokia Institute of Technology, Brazil).....	855

<i>Application Defined Computing in Smartphones and Consumer Electronics</i> Arun Jagatheesan (Samsung R&D Center, USA), Zheng Li (Samsung R&D Center, USA)	857
<i>FARCREST: Euclidean Steiner Tree-based Cloud Service Latency Prediction System</i> Boon Ping Lim (MIMOS Berhad, Malaysia), Poh Kit Chong (MIMOS Berhad, Malaysia), Ettikan Kandasamy Karuppiah (MIMOS Bhd, Malaysia), Yaszrina Mohamad Yassin (Mimos Bhd, Malaysia), Amril Nazir (University College London, United Kingdom), Mohamed Farid Noor Batcha (Mimos Bhd, Malaysia)	859
<i>SDNAN: Software-Defined Networking in Ad hoc Networks of Smartphones</i> Paul Baskett (University of Missouri, USA), Yi Shang (University of Missouri, USA), Wenjun Zeng (University of Missouri, Columbia, USA), Brandon Guttersohn (Southeast Missouri State University, USA)	861
<i>Performance Improvement of Mobile P2P VoD by Opportunity Extension</i> Hyun Lee (Gwangju Institute of Science and Technology, Korea), Jae-Yong Yoo (Gwangju Institute of Science and Technology(GIST), Korea), JongWon Kim (GIST (Gwangju Institute of Science & Technology), Korea)	863
<i>FINS: Model-Based Design of Flying Indoor</i> Anwar Al-Khateeb (Politecnico Di Torino, Italy), Eric Baczuk (MIT, The Netherlands), Carlo Ratti (Massachusetts Institute of Technology, USA)	865
<i>Enabling new e-health business models by converging IP-based and non-IP-based home networks</i> Frank den Hartog (TNO, The Netherlands), Martin Tijmes (TNO, The Netherlands), Eelco Cramer (TNO, The Netherlands), Arjen Noorbergen (Home Automation Europe, The Netherlands)	867
<i>Demo: Improving Associations in IEEE 802.11 WLANs</i> Mónica Alejandra Lora (RWTH Aachen University, Germany), Alexander Paulus (RWTH Aachen University, Germany), Klaus Wehrle (RWTH Aachen University, Germany)	869
<i>Scaling Smart Spaces: Concept and Exploration</i> Hock Beng Lim (Nanyang Technological University, Singapore), Ken Ong (NTU, Singapore), Sundaravaradan Jithendrian (Nanyang Technological University, Singapore), Fei Xue (Nanyang Technological University, Singapore), Kai Liu (Nanyang Technological University, Singapore), Wenqiang Wang (Nanyang Technological University, Singapore)	871
<i>A Peer-to-Peer Microblogging Service Based on IP Multicast and Social Virtual Private Networking</i> Pierre T St. Juste (University of Florida, USA), Renato Figueiredo (University of Florida, USA)	873
<i>Towards A System for Body-Area Sensing and Detection of Alcohol Craving and Mood Dysregulation</i> Paul Baskett (University of Missouri, USA), Yi Shang (University of Missouri, USA), Michael Patterson (Gustavus Adolphus College, USA), Timothy Trull (University of Missouri, USA)	875
<i>CoCam: Real-time Photo Sharing Based on Opportunistic P2P Networking</i> Eyal Toledano (MIT Media Lab, USA), Dan Sawada (Massachusetts Institute of Technology, USA), Andrew Lippman (MIT Media Laboratory, USA), Henry Holtzman (MIT Media Lab, USA), Federico Casalegno (MIT, USA)	877
<i>Mobility - Rethinking Productivity in the Enterprise</i> Long Nguyen (Composite Apps, USA)	879
<i>Toward Enforcement of Purpose for Privacy Policy in Distributed Healthcare</i>, % Annanda Thavymony Rath (University of Namur, Belgium), Jean-Noel Colin (University of Namur, Belgium)	
<i>CloudHealth: Developing A Reliable Cloud Platform for Healthcare Applications</i>	887

Evan Hendrick (Michigan Technological University, USA), Brad Schooley (Michigan Technological University, USA), Chunming Gao (Michigan Technological University, USA)	
<i>The Design and Implementation of a Wireless Healthcare Application for WSN-enabled IMS Environments</i>	
May El Barachi (Zayed University, UAE), Omar Alfandi (University of Goettingen, Germany)	892
<i>An Axiomatic Model For Formal Specification Requirements of Ubiquitous Healthcare Systems</i>	
Amjad Gawanmeh (Khalifa University of Science, Technology and Research, UAE)	898
<i>Leveraging Real-world Data While Protecting Privacy - Framework Using Personal Agent System for Distributed Data</i>	
Tomohiro Inoue (NTT, Japan), Taichi Kawabata (NTT, Japan), Hiroyuki Maeomichi (NTT Cyber Solutions Laboratories, Japan), Mika Ishizuka (NTT, Japan), Koichi Takasugi (NTT, Japan), Akihiro Tsutsui (NTT Network Innovation Laboratories, Japan), Ikuo Yoda (NTT Corporation, Japan)	903
<i>A Game Theory Model for Situation Awareness and Management</i>	
Mark D Rahmes (Harris Corporation, USA), Kathy Wilder (Harris Corporation, USA), Kevin Fox (Harris Corporation, USA), Rick Pemble (Harris Corporation, USA)	909
<i>Activity Recognition Using Smartphone Sensors</i>	
Alvina Anjum (National University of Science and Technology, Pakistan), Muhammad Usman Ilyas (National University of Sciences & Technology, Pakistan)	914
<i>Improved Transient Weather Reporting Using People Centric Sensing</i>	
William D Phillips (University of South Florida, USA), Ravi Sankar (University of South Florida, USA)	920
<i>Gossipmule: Improving Association Decisions via Opportunistic Recommendations</i>	
Mónica Alejandra Lora (RWTH Aachen University, Germany), Alexander Paulus (RWTH Aachen University, Germany), Klaus Wehrle (RWTH Aachen University, Germany)	926
<i>Performance Analysis of Routing Protocols in Zigbee Non-Beacon Enabled Wireless Sensor Networks</i>	
Adam Dahlstrom (University of St. Thomas, USA), Ramesh Rajagopalan (University of Saint Thomas, USA)	932
<i>Modeling and Implementation of SIP and EPC Protocols in Airline Luggage Tracking Applications</i>	
Anwar Al-Khateeb (Politecnico Di Torino, Italy)	944
<i>RFID System Implementation in Jebel Ali Port</i>	
Mohamed Watfa (University of wollongong / American University of Beirut, Lebanon)	950
<i>Performance Analysis of Source Specific Multicast over Internet Protocol version 6 with Internet Protocol version 4 in a Test Bed</i>	
Mohammad Ahsan Chishti (National Institute of Technology Srinagar, India), Ashaq Majid Ahanger (National Institute of Technology Srinagar, India), Shaima Qureshi (National Institute of Technology Srinagar, India), Ajaz H. Mir (National Institute of Technology Srinagar, India)	956
<i>Sensor Networks in Future Smart Rotating Buildings</i>	
Kamal Jaafar (University of Wollongong, Dubai, UAE)	962