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Speaker: John Apostolopoulos, CTO and Vice President, Cisco, USA

SPAN: Sensor, Peer-to-peer and Social Networks

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Fei Wang (Institute of Computing Technology, Chinese Academy of Sciences & University of Chinese Academy of Sciences, P.R. China); Yujun Zhang (Institute of Computing Tech. Chinese Academy of Sciences, P.R. China); Yongjun Xu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Lin Wu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Boyu Diao (Institute of Computing Technology, Chinese Academy of Sciences & University of Chinese Academy of Sciences, P.R. China)
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Speaker: Dapeng Oliver Wu , Professor, University of Florida, USA

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Kwang-il Hwang (Incheon National University, Korea); In Jang (Incheon National University, Korea)
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Ricardo Sancho (Instituto Superior Técnico - Technical University of Lisbon, Portugal); Ricardo Lopes Pereira (INESC-ID/Instituto Superior Técnico, Portugal)
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Jason Nikolai (Dakota State University, USA); Yong Wang (Dakota State University, USA)
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Hakan Kardes (inome Inc. & Intelius, USA); Siddharth Agrawal (inome Inc., USA); Xin Wang (inome Inc., USA); Ang Sun (inome Inc., USA)
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Tiia Ojanperä (VTT Technical Research Centre of Finland, Finland); Markus Luoto (VTT Technical Research Centre of Finland, Finland); Mikko Uitto (VTT Technical Research Centre of Finland, Finland); Heli Kokkonen-Tarkkanen (VTT Technical Research Centre of Finland, European Union)
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Basak Oztas Yoldemir (The University of British Columbia, Canada); Mahsa T. Pourazad (TELUS Communications Company, Canada); Panos Nasiopoulos (University of British Columbia, Canada); Iraj Sodagar (Microsoft, USA); Victor CM Leung (The University of British Columbia, Canada)
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Eslam El-Fiky (Alexandria University & Electrical Engineering Department, Faculty of Engineering, Egypt); Ziad A. El-Sahn (Alexandria University, Egypt); Hossam Shalaby (Alexandria University, Egypt)
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CNC IX: Network Algorithms

Greedy Failure-Carrying Packets

Christoph Werle (Karlsruhe Institute of Technology (KIT), Germany); Oliver P. Waldhorst (Daimler AG, Germany)
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Persistent Dataset Generation using Real-Time Operative Framework

Maher Salem (University of Applied Sciences Fulda & Network and Data Security, Germany)
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A Novel Method for Estimating the Variable and Constant Components of One-Way Delays Without Using the Synchronized Clocks

Jun Liu (University of North Dakota, USA)

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A Utility Proportional Fairness Approach for Resource Allocation in 4G-LTE

Ahmed Abdelhadi (Virginia Tech, USA); T. Charles Clancy (Virginia Tech, USA)

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Advance Bandwidth Reservation with Deadline Constraint in High-performance Networks

Poonam Dharam (University of Memphis, USA); Chase Qishi Wu (University of Memphis & Oak Ridge National Laboratory, USA); Yongqiang Wang (Northwest University, P.R. China)

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Low Complexity All-Optical Network Coder Architecture

Eric D. Manley (Drake University, USA)

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Keynote Talk: Software-Defined Access Networks: Unbundled Competitive Broadband

Speaker: John M. Cioffi. Hitachi Professor Emeritus, Stanford University, USA

Invited Position Talks I

A New Approach to Coding in Content-Based MANETs

Joshua Joy (UCLA, USA); Mario Gerla (University of California at Los Angeles, USA); Victor Perez (University of California, Los Angeles, USA); Yu-Ting Yu (University of California, Los Angeles, USA); Dennis Lu (UCLA, USA)

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Spectrum-Energy Efficiency of Wireless Networks

Fumiyuki Adachi (Tohoku University, Japan)

Millimeter Wave Cellular Channel Models for System Evaluation

Tianyang Bai (The University of Texas at Austin, USA); Vipul Desai (Huawei Technologies, USA); Robert Heath (The University of Texas at Austin, USA)

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NAPE: Network Algorithm & Performance Evaluation

Evaluation Framework for Reconstruction of Messages in Cooperative Coding Schemes of Multiple-Sources and Multiple-Relays

Jin-Taek Seong (Gwangju Institute of Science and Technology, Korea); Heung-No Lee (Gwangju Institute of Science and Technology, Korea)

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Optimal Routing for Bidirectional Flows with Network Coding in Asymmetric Wireless Networks

Hooman Reisi Dehkordi (University of Sydney, Australia); Lavy Libman (University of New South Wales, Australia)

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Achieving TCP Reno Friendliness in FAST TCP over Wide Area Networks

Jingyuan Wang (Beihang University, P.R. China); Fei Gao (Beihang University, P.R. China); Jiangtao Wen (Tsinghua University, P.R. China); Li Chao (Beihang, P.R. China); Zhang Xiong (Beihang University, P.R. China); Yuxing Han (Flora Production Inc., P.R. China)

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A Comparative Study of Routing Metrics for Reliable Multi-Path Provisioning

Ruben Rivera (Northern New Mexico College, USA); Jorge Crichigno (Northern New Mexico College, USA); Nasir Ghani (University of South Florida, USA)

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Performance analysis of multicast routing algorithms

Dimitri Papadimitriou (Alcatel-Lucent Bell & UGent, Belgium); Davide Careglio (Universitat Politecnica de Catalunya, Spain); Piet Demeester (Ghent University - iMinds, Belgium)

How to Transfer Flows Efficiently via the Internet?

Sándor Molnár (Budapest University of Technology and Economics, Hungary); Zoltán Móczár (Budapest University of Technology and Economics, Hungary); Balázs Sonkoly (Budapest University of Technology and Economics, Hungary)
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CIS I: Communications and Information Security I

SkyTracer: Towards Fine-Grained Identification for Skype Traffic via Sequence Signatures

Zhenlong Yuan (Tsinghua University, P.R. China); Cuilan Du (National Computer Network Emergency Response Technical Team/Coordination Center, P.R. China); Xiaoxian Chen (Harbin University of Science and Technology, P.R. China); Dawei Wang (National Computer Network Emergency Response Technical Team / Coordination Center of China, P.R. China); Yibo Xue (Tsinghua university, P.R. China)
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A Novel Method for Information Propagation Model Perceiving

Chengqi Yi (Harbin University of Science and Technology, P.R. China); Yuanyuan Bao (Tsinghua University, P.R. China); Siqi Sun (Tsinghua University, P.R. China); Yibo Xue (Tsinghua university, P.R. China)
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Effective Immunization Strategy for Rumor Propagation Based on Maximum Spanning Tree

Yuanyuan Bao (Tsinghua University, P.R. China); Yan Niu (CNCERT/CC, P.R. China); Chengqi Yi (Harbin University of Science and Technology, P.R. China); Yibo Xue (Tsinghua university, P.R. China)
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Combating False Data Injection Attacks in Smart Grid Using Kalman Filter

Kebina Manandhar (Georgia State University, USA); Xiaojun Cao (Georgia State University, USA); Fei Hu (University of Alabama, USA); Yao Liu (University of South Florida, USA)
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Dawei Wang (National Computer Network Emergency Response Technical Team / Coordination Center of China, P.R. China); Luoshi Zhang (Harbin University of Science and Technology, P.R. China); Zhenlong Yuan (Tsinghua University, P.R. China); Yibo Xue (Tsinghua university, P.R. China); Yingfei Dong (University of Hawaii, USA)
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DongHyun Je (Samsung Electronics, Korea); Han-Seok Kim (Samsung Electronics Co., LTD., Korea); Yoon-Ho Choi (Kyonggi University, Korea); Seung-Woo Seo (Seoul National University, Korea, Korea)
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Maximizing the Lifetime of Delay-Sensitive Sensor Networks via Joint Routing and Sleep Scheduling

Yunan Gu (Texas Southern University, USA); Miao Pan (Texas Southern University, USA); Wei Li (Texas Southern University, USA)
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Wireless Sensor Network-based Air Quality Monitoring System

Samer Essber Mansour (Alfaisal University & Dalhousie University, Saudi Arabia); Nidal Nasser (Alfaisal University, Saudi Arabia); Lutful Karim (Seneca College of Applied Arts and Technology, Canada); Asmaa Ali (University of Guelph, Canada)
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A Novel Communication Mode Selection Technique for DTN over MANET Architecture

Masaya Ito (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan)
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Fairness Based Dynamic Channel Allocation in Wireless Mesh Networks

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Ubiquitous Sensor Data Collection with Mobile Users

Brendan Mumey (Montana State University, USA); Gang Xu (Uppsala University, Sweden); Edith C.-H. Ngai (Uppsala University & Division of Computer Systems, Sweden)
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Identifying Malicious Behavior in MANET through Data Path Information

Danai Chasaki (Villanova University, USA)
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WC I: Wireless Communications I

A Globally Optimal Neyman-Pearson Test for Hard Decisions Fusion in Cooperative Spectrum Sensing

Ahmed Alaa (Cairo University, Egypt); Omar Nasr (Cairo University, Egypt)
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Distributed Framework of Downlink CoMP MU-MIMO Transmission with Adaptive Mode Switch and Power Allocation

Zhiyuan Zong (Fudan University, P.R. China); Hui Feng (Fudan University, P.R. China); Tao Yang (Fudan University, P.R. China); Bo Hu (Fudan University, Shanghai, P.R. China)
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A Novel Power Allocation Technique for 4G Cellular Networks

Santosh V Nagaraj (San Diego State University, USA); Mahasweta Sarkar (San Diego State University, USA)
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Cross-Layer Radio Resource Allocation for Multi-Service Networks of Heterogeneous Traffic

Arman Shojaeifard (University of Manchester, United Kingdom); Hadi Saki (King's College London & Centre for Telecommunications Research, United Kingdom); Mohammad Mirtavoosi Mahyari (King's College London, United Kingdom); Mohammad Shikh-Bahaei (Kings college London, United Kingdom)
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Performance of Amplify-and-Forward Relay Networks with Interference-Limited Destination in Rician Fading Environments

Anas M. Salhab (King Fahd University of Petroleum & Minerals, Saudi Arabia); Fawaz Al-Qahtani (Texas A&M University at Qatar & Education City, Qatar); Salam A. Zummo (KFUPM, Saudi Arabia); Hussein Alnuweiri (Texas A&M University, Qatar)
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A systemic and cognitive approach for IoT security

Arbia RIAHI (Military Academy of Tunisia, Tunisia); Enrico Natalizio (Université de Technologie de Compiègne, France); Yacine Challal (University of Technology of Compiègne & Heudiasyc lab. UMR CNRS, France); Nathalie Mitton (Inria Lille - Nord Europe, France); Antonio Iera (University Mediterranea of Reggio Calabria, Italy)
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Plenary Talk: Video Game as a Service – Cloud Computing Enabled Mobile Video Gaming

Speaker: Victor C. M. Leung. Professor and TELUS Mobility Research Chair, UBC, Canada

Plenary Talk: Collaborative Innovation for ICT-Enabled Future Society Solutions

Speaker: Yasunori Mochizuki. Vice President, NEC Corporation, Japan

Invited Position Talks II

Wide-Area Real-Time Surveillance Using Electric Vehicles and Helicopters for Disaster Recovery

Kenichi Mase (Niigata University, Japan)

Energy-Delay Tradeoff in Hyper-Cellular Networks with Base Station Sleeping Control

Zhisheng Niu (Tsinghua University, P.R. China)

Improving QoS in Real-Time Internet Applications: From Best-Effort to Software-Defined Networks

Sergey Gorlatch (University of Munster, Germany); Tim Humernbrum (University of Münster, Germany); Frank Glinka (University of Muenster, Germany)
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Yong Liang Guan (Nanyang Technological University, Singapore); Guojun Han (Nanyang Technological University & Guangdong University of Technology, Singapore); Lingjun Kong (Nanyang Technological University, Singapore); Kheong Sann Chan (Data Storage Institute, Singapore); Kui Cai (Data Storage Institute, Singapore)
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Ruifeng Duan (University of Vaasa, Finland); Mohammed Salem Elmusrati (University of Vasa, Finland)
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Gosan Noh (Electronics and Telecommunications Research Institute, Korea); Sungmook Lim (Yonsei University, Korea); Yosub Park (Yonsei University, Korea); Jihaeng Heo (Yonsei University, Korea); Daesik Hong (Yonsei University, Korea)
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Xiaohua (Edward) Li (State University of New York at Binghamton, USA); Chengyu Xiong (State University of New York at Binghamton, USA)
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Hadi Saki (King's College London & Centre for Telecommunications Research, United Kingdom); Arman Shojaeifard (University of Manchester, United Kingdom); Mohammad Shikh-Bahaei (Kings college London, United Kingdom)
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Ramtin Pedarsani (UC Berkeley, USA); Jean Walrand (University of California, Berkeley, USA); Yuan Zhong (UC Berkeley, USA)
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Heng Wang (Chongqing University, P.R. China); Hongjia Li (Institute of Acoustics, Chinese Academy of Sciences & Beijing University of Posts and Telecommunications, P.R. China); Zejie

Wang (Institute of Acoustics, Chinese Academy of Sciences, P.R. China); Xin Chen (Chinese Academy of Sciences, P.R. China); Song Ci (University of Nebraska-Lincoln, USA)
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WN I: Wireless Networks I

Two-Way Cyclotomic Orthogonal Space-Time Transmission Scheme for Asynchronous Cooperative Systems

Yudong Ma (Nanjing University, P.R. China); Hua Jiang (Nanjing University, P.R. China); Sidan Du (Nanjing University, P.R. China)
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Coexistence Management for Heterogeneous Networks in White Spaces

Karim A. Khalil (The Ohio State University, USA); Golnaz Farhadi (Fujitsu Laboratories of America, USA); Akira Ito (Fujitsu Laboratories of America, USA)
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On Relay Assignment Strategy in Wireless Cellular Environment

Chun-Lin Wu (National Taiwan University, Taiwan); Tsungnan Lin (National Taiwan University, Taiwan); Hsiun-Fu Liu (National Taiwan University, Taiwan); Zan-Yu Chen (National Taiwan University, Taiwan)
pp. 698-703

SODCA: A Self-Organized Distributed Channel Access Scheme for IEEE 802.11 Networks

Youssef El Hajj Shehadeh (TU Chemnitz, Germany); Mohamad Hotait (University of Goettingen, Germany); Dieter Hogrefe (University of Goettingen, Germany)
pp. 704-709

Wide-area Centralized Radio Resource Management for DCF-based Multi-hop Ad hoc Wireless Networks

Shinichi Miyamoto (Osaka University, Japan); Naoki Hayata (Osaka University, Japan); Seiichi Sampei (Osaka University, Japan); Wenjie Jiang (NTT Network Innovation Laboratories, NTT Corporation & Research Engineer, Japan)
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Concurrency in Polygonally Arranged Wireless Data Centers with All Line-of-Sight Links

Hars Vardhan (Samsung Research America, USA); Ravi Prakash (University of Texas at Dallas, USA)
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CQSM: Communication QoS and System Modeling

Optimal threshold configuration with equality based call admission control with cooperative users (mixed loss and delay system)

Sumiko Miyata (Kanagawa University, Japan); Katsunori Yamaoka (Tokyo Institute of Technology, Japan); Hirotsugu Kinoshita (Kanagawa University, Japan)
pp. 105-111

Time-based Criteria for Performance Comparison of Resource-Intensive User Tasks in Virtual Desktops

Mikhail Makarov (Volga oil-trunk pipelines JSC, Russia); Prasad Calyam (University of Missouri-Columbia, USA); Andrei Sukhov (Samara State Aerospace University & Internet TV Ltd., Russia); Vitaly Samykin (Samara State Aerospace University, USA)
pp. 112-116

Coverage and Capacity Analysis of Hybrid Home Networks

Peerapol Tinnakornsriruphap (Qualcomm Technologies, USA); Punyaslok Purkayastha (Qualcomm Technologies, USA); Bibhu Mohanty (Qualcomm Technologies, USA)
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Fair Queueing without Per-Flow Queues: A Virtual Queueing Machine

Gary Chang (Qualcomm Tech Inc, USA); Chung-Chieh Lee (Northwestern University, USA)
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Analysis of Realized Peer-to-Peer Streaming Topologies by Kronecker Graphs

Udo R. Krieger (Otto-Friedrich University Bamberg, Germany); Philipp Eittenberger (Otto-Friedrich University Bamberg, Germany); Alex Borges Vieira (Universidade Federal de Juiz de Fora, Brazil)
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Towards Real-time Processing for Application Identification of Encrypted Traffic

Yuichi Kumano (Osaka City University, Japan); Shingo Ata (Osaka City University, Japan); Nobuyuki Nakamura (OKI Electric Industry Co., Ltd., Japan); Yoshihiro Nakahira (Oki Electric Industry, Japan); Ikuo Oka (Osaka City University, Japan)
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ISA: Internet Services and Applications

A Socio- And Locality-Aware Overlay for User-Centric Networking

Martin Florian (Karlsruhe Institute of Technology, Germany); Fabian Hartmann (Karlsruhe Institute of Technology (KIT), Germany); Ingmar Baumgart (Karlsruhe Institute of Technology (KIT), Germany)
pp. 327-333

Some Observations on the Performance of CCN-Flooding

Ahmed W Kazi (Stony Brook University, USA); Hussein Badr (Stony Brook University, USA)
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Mapping of Delay-Sensitive Virtual Networks

Karthikeswar Ivaturi (University of Massachusetts, USA); Tilman Wolf (University of Massachusetts, USA)
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Uplink Allocation based on User Actions for Peer-To-Peer Video-on-Demand

Filippos Koravos (Center for Research and Technology - Hellas (CERTH), Greece); Leandros Tassioulas (University of Thessaly, Greece)
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Introducing ufo.js: a browser-oriented p2p network

Antonio Bevilacqua (Università degli studi di Napoli Federico II, Italy); Pasquale Boemio (Università degli studi di Napoli Federico II, Italy); Simon Pietro Romano (University of Napoli Federico II, Italy)
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Quality Evaluation of Voice over Multiple TCP Connections

Kozo Satoda (NEC Corporation, Japan); Koichi Nihei (NEC Corporation, Japan); Hiroshi Yoshida (NEC Corporation, Japan)
pp. 141-146

Keynote Talk: The Software-Defined Building: A Machine for Living

Speaker: Randy Katz. United Microelectronics Corporation Distinguished Professor, University of California, Berkeley, USA

Invited Position Talks III

Coding Theory for Reliable Signal Processing

Aditya Vempaty (Syracuse University, USA); Yungshiang Sam Han (National Taiwan University of Science and Technology, Taiwan); Lav R. Varshney (University of Illinois at Urbana-Champaign, USA); Pramod Varshney (Syracuse University, USA)
pp. 200-205

Joint Network Channel Fountain Scheme for Reliable Communication in Wireless Networks

Ahasanun Nessa (Écoledetecnologiesupérieure, Canada); Kadoch Michel (Ecole de technologie supérieure, Canada); Bo Rong (CRC, Canada)
pp. 206-210

Designing provably efficient Map-Reduce Schedulers: A probabilistic approach

Ness B. Shroff (The Ohio State University, USA)

IP I: Invited Papers I

Type-aware Task Placement in Geo-distributed Data Centers with Low OPEX using Data Center Resizing

Lin Gu (The University of Aizu, Japan); Deze Zeng (School of Computer Science and Engineering, The University of Aizu, Japan); Song Guo (The University of Aizu, Japan); Shui Yu (Deakin University, Australia)

pp. 211-215

Security from the Transparent Computing Aspect

Guojun Wang (Central South University, P.R. China); Qin Liu (Central South University & Temple University, P.R. China); Yang Xiang (Deakin University, Australia); Jianer Chen (Texas A&M University, USA)

pp. 216-220

Survivable Virtual Optical Network Mapping in Flexible-Grid Optical Networks

Weisheng Xie (University of Texas at Dallas, USA); Jason P. Jue (University of Texas at Dallas, USA); Qiong Zhang (Fujitsu Laboratories of America, USA); Xi Wang (Fujitsu Laboratories of America, USA); Qingya She (Fujitsu Network Communications, USA); Paparao Palacharla (FLA, USA); Motoyoshi Sekiya (Fujitsu Laboratories of America, Inc., USA)

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Dynamic Spectrum Access: Current State of the Art and Future Challenges

Anirudha Sahoo (NIST, USA); Michael R. Souryal (National Institute of Standards and Technology, USA)

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CIS II: Communications and Information Security II

Emilie: Enhance the Power of Traffic Identification

Yiyang Shao (Tsinghua University, P.R. China); Baohua Yang (IBM Research, P.R. China); Jingjie Jiang (Hong Kong University of Science and Technology, Hong Kong); Yibo Xue (Tsinghua university, P.R. China); Jun Li (Tsinghua University, P.R. China)

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Optimal Hidden SCADA Attacks on Power Grid: A Graph Theoretic Approach

Deepjyoti Deka (University of Texas, USA); Ross Baldick (The University of Texas at Austin, USA); Sriram Vishwanath (University of Texas Austin, USA)

pp. 36-40

P2DR: Privacy-Preserving Demand Response System in Smart Grids

Depeng Li (University of Hawaii at Manoa, USA); Zeyar Aung (Masdar Institute of Science and Technology, UAE); John Williams (MIT, USA); Abel Sanchez (Massachusetts Institute of Technology, USA)

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Techniques for Detecting Attacks on Critical Infrastructure

Udaya Tupakula (Macquarie University, Australia); Vijay Varadharajan (Macquarie university, Australia)

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Stack Protection in Packet Processing Systems

Peng Wu (University of Massachusetts, USA); Tilman Wolf (University of Massachusetts, USA)

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Risk-Driven Aggregation and Transmission Prioritization of Cyber Alerts over Mobile Networks

Hasan Cam (Army Research Laboratory, USA); Pierre Mouallem (US Army Research Laboratory, USA)

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WAHS II: Wireless Ad Hoc and Sensor Networks II

Message Prioritization of Epidemic Forwarding in Delay-Tolerant Networks

Xu Liu (Memorial University of Newfoundland, Canada); Yuanzhu Chen (Memorial University of Newfoundland, Canada); Cheng Li (Memorial University of Newfoundland, Canada); Walter Taylor (Dartmouth College, USA); Jason Moore (Dartmouth College, USA)
pp. 573-577

ICAN: Information-Centric Context-Aware Ad-Hoc Network

Yu-Ting Yu (University of California, Los Angeles, USA); Chris Tandiono (UCLA, USA); Xiao Li (UCLA, USA); You Lu (University of California, Los Angeles, USA); M. Y. Sanadidi (University of California, Los Angeles, USA); Mario Gerla (University of California at Los Angeles, USA)
pp. 578-582

Performance of p-persistent Slotted Aloha for Underwater Sensor Networks

Yanping Zhang (Gonzaga University, USA)
pp. 583-587

Channel Assignment in Cognitive Wireless Sensor Networks

Mihaela Cardei (Florida Atlantic University, USA); Amalya Mihnea (Florida Atlantic University, USA)
pp. 588-593

Ensemble Empirical Mode Decomposition for Time Series Prediction in Wireless Sensor Networks

Gagan Goel (University of Toronto, Canada); Dimitrios Hatzinakos (University of Toronto, Canada)
pp. 594-598

Online Data-Centric Anomaly Detection Framework For Sensor Network Deployments

Giovani Rimon Abuitah (Wright State University, USA); Bin Wang (Wright State University, USA)
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WC II: Wireless Communications II

Link Adaptation in Closed-Loop Coded MIMO Systems with LMMSE-IC based Turbo Receivers

Baozhu Ning (SUPELCE, France); Raphael Visoz (Orange Labs, France); Antoine O. Berthet (Supélec, France)
pp. 632-638

On the Marginal Area under the Receiver Operating Characteristics of Diversity Energy Detectors in Generalized Fading Channels

Eyidayo Adebola (Prairie View A & M University & CECSTR, USA); Abiodun Olaluwe (Prairie View A&M University, USA); Annamalai Annamalai (Prairie View A&M University, USA)
pp. 639-643

Achievable Rate of a Two-Way Relay Channel with Structured Code under Rayleigh Fading

Youvaraj Sagar (Wichita State University, USA); Jie Yang (Wichita State University, USA); Hyuck Kwon (Wichita State University, USA); Wooseok Nam (Samsung Information Systems America, USA)
pp. 644-648

Stochastic Geometry Analysis of the Average Error Probability of Downlink Cellular Networks

Peng Guan (CNRS, France); Marco Di Renzo (French National Center for Scientific Research (CNRS), France)
pp. 649-655

Network Coding in Multiple Access Relay Channel with Multiple Antenna Relay

Lili Wei (Utah State University, USA); Wen Chen (Shanghai Jiao Tong University, P.R. China); Rose Qingyang Hu (Utah State University, USA); Geng Wu (Intel Corporation, USA)
pp. 656-661

Performance Analysis of Spatial Modulation MIMO in a Poisson Field of Interferers

Wei Lu (L2S, CNRS, Université Paris-Sud, France); Marco Di Renzo (French National Center for Scientific Research (CNRS), France)
pp. 662-668

Plenary Talk: Micro Base Station Aided Vehicular Ad Hoc Networking

Speaker: Izhak Rubin. Distinguished Professor , UCLA, USA

Micro Base Station Aided Vehicular Ad Hoc Networking

Izhak Rubin (University of California at Los Angeles, USA); Yu-Yu Lin (University of California, Los Angeles, USA); Andrea Baiocchi (University of Roma Sapienza, Italy); Francesca Cuomo (University of Rome Sapienza, Italy); Pierpaolo Salvo (University of Rome Sapienza, Italy)
pp. 231-235

Plenary Talk: Disaster Resilient Network Technologies: MDRU and Relay-by-Smartphone

Speaker: Nei Kato. Professor, Tohoku University, Japan

Invited Position Talks IV

Spectrum Sharing: Challenges, Directions, and Opportunities

Min Song (The University of Toledo, USA)

Algorithmic Challenges in Flexible Optical Networks

Emmanouel Varvarigos (University of Patras & Computer Technology Institute, Greece); Kostas Christodoulopoulos (University of Patras, Greece)
pp. 236-241

Recent Advances and Challenges in Human-centric Multimedia Mobile Cloud Computing

Eduardo Cerqueira (Federal University of Para & UFPA, Brazil); Euisin Lee (University of California, Los Angeles, USA); Jui-Ting Weng (University of California, Los Angeles, USA); Jae-Han Lim (University of California, Los Angeles, USA); Joshua Joy (UCLA, USA); Mario Gerla (University of California at Los Angeles, USA)
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IP II: Invited Papers II

SocialCloaking: a Distributed Architecture for K-anonymity Location Privacy Protection

Ren-Hung Hwang (National Chung-Cheng University, Taiwan); Fu-Hui Huang (National Chung-Cheng University, Taiwan)
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Multi-Radio Heterogeneous Networks: Architectures and Performance

Nageen Himayat (Intel Corporation, USA); Shu-ping Yeh (Intel Corporation, USA); Ali Y Panah (Intel Corporation, USA); Shilpa Talwar (Intel, USA); Mikhail Gerasimenko (Tampere University of Technology, Finland); Sergey Andreev (Tampere University of Technology, Finland); Yevgeni Koucheryavy (Tampere University of Technology, Finland)
pp. 252-258

Reduction of data prevention cost and improvement of reliability in MLC NAND flash storage system

Danghui Wang (Northwestern Polytechnical University, P.R. China); Jie Guo (University of Pittsburgh, USA); Kai Bu (National University of Defense Technology, P.R. China); Yiran Chen (University of Pittsburgh, USA)
pp. 259-263

Connectivity As a Service: Towards Optical-based Network Virtualization

Yang Wang (La Salle University, USA); Qian Hu (Georgia State University, USA); Xiaojun Cao (Georgia State University, USA)
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WN II: Wireless Networks II

Full Duplex Device to Device Communication in Cellular Networks

Sanghoon Kim (University of Michigan, USA); Wayne Stark (University of Michigan, USA)
pp. 721-725

Acceleration and Visualization of Dynamic Network Optimization

Yuanzhou Ye (University of Reading/ Symantec Corporation, United Kingdom); José O. Cadenas (University of Reading, United Kingdom); Graham Megson (University of Westminster, London, United Kingdom)
pp. 726-730

Reducing Power Consumption in LTE Data Scheduling with the Constraints of Channel Condition and QoS

Li-Ping Tung (National Chiao Tung University, Taiwan); Ying-Dar Lin (National Chiao Tung University, Taiwan); Yu-Hsien Kuo (National Chiao Tung University, Taiwan); Yuan-Cheng Lai (Information Management, NTUST, Taiwan); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)
pp. 731-735

Aggregating Internet Access in a Mesh-Backhauled Network through MPTCP Proxying

Wahab Almuhtadi (Algonquin College & Faculty of Technology & Trades, Canada); Thanh-Hieu Nong (Algonquin College, Canada); Ricky Wong (Algonquin College, Canada); Jordan Melzer (TELUS Communications, Canada)
pp. 736-742

Cost Analysis of Movement-Based Location Update Scheme Using an Approach of Embedded Markov Chain

Xian Wang (Southwest Jiaotong University & National Taiwan University of Science and Technology, P.R. China); Xianfu Lei (Utah State University, USA); Rose Qingyang Hu (Utah State University, USA); Geng Wu (Intel Corporation, USA)
pp. 743-749

Downlink Resource Allocation with Cooperative Transmission in EPON-WiMAX Integrated Network

Shang-Hsiu Tien (National Chung-Cheng University, Taiwan); Hung-Yi Teng (National Chung-Cheng University, Taiwan); Ren-Hung Hwang (National Chung-Cheng University, Taiwan)
pp. 750-754

SPC: Signal Processing for Communications

Improving Smartphone Downlink Performance and Energy Efficiency with 3-Antenna Receive Diversity

Joseph B. Soriaga (Qualcomm, Inc., USA); Xiaoyin He (Qualcomm Technologies, Inc., USA); Yu-Chin Ou (Qualcomm Technologies, Inc., USA); Christopher Lott (Qualcomm, Inc., USA); Rashid Attar (QUALCOMM Inc., USA)
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Achievable Angles Between Two Compressed Sparse Vectors Under RIP-Induced Norm/Distance Constraints

Ling-Hua Chang (National Chiao Tung University, Taiwan); Jwo-Yuh Wu (National Chiao Tung University, Taiwan)
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Variance Detection for Non-coherent Impulse Radio UWB Receivers

Aidong Yang (Dalhousie University, Canada); Hong Nie (University of Northern Iowa, USA); Zhimeng Xu (Fuzhou University, P.R. China); Zhizhang (David) Chen (Dalhousie University, Canada)
pp. 529-533

Beampattern Analysis for MIMO Radar and Telecommunication System Coexistence

Awais Khawar (Virginia Tech, USA); Ahmed Abdelhadi (Virginia Tech, USA); T. Charles Clancy (Virginia Tech, USA); Robert McGwier (Virginia Tech & Allied Communications, AMSAT, and Flex Radio System, Inc., USA)

Exact BER Analysis of Subcarrier QAM and PSK Intensity Modulations in Strong Turbulence

Md. Zoheb Hassan (School of Engineering, University of British Columbia, Canada); Md. Jahangir Hossain (University of British Columbia, Okanagan, Canada); Julian Cheng (University of British Columbia, Canada)
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OGN: Optical and Grid Networking

Scheduling Aware Dimensioning for Time-Domain Wavelength Interleaved Network

Bogdan Uscumlic (Telecom Bretagne, France); Yvan Pointurier (Alcatel-Lucent Bell Labs, France); Annie Gravey (Institut Mines Telecom - Telecom Bretagne, France); Philippe Gravey (Télécom Bretagne, France); Luay Alahdab (Institut Mines Telecom - Telecom Bretagne, France)
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Dynamic Anycast in Inter-Datacenter Networks over Elastic Optical Infrastructure

Liang Zhang (University of Science and Technology of China, P.R. China); Zuqing Zhu (University of Science and Technology of China, P.R. China)
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Reliable Light-tree Construction with Weighted SRLGs in Optical Networks

Yi Zhu (Hawaii Pacific University, USA); Kevin Goo (Hawaii Pacific University, USA)
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Spectrum Defragmentation Implementation based on Software Defined Networking (SDN) in Flexi-Grid Optical Networks

Xiaosong Yu (Beijing University of Posts and Telecommunications, P.R. China); Yongli Zhao (Beijing University of Posts and Telecommunications, P.R. China); Jie Zhang (Beijing University of Posts and Telecommunications, P.R. China); Lingnan Gao (Beijing University of Posts and Telecommunications, P.R. China); Jiawei Zhang (Beijing University of Posts and Telecommunications, P.R. China); Xinbo Wang (University of California, Davis, P.R. China)
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Lowering Power Consumption in Dedicated Tributary Protection Schemes Using Digital Subcarrier Optical Networks

Miguel Razo (University of Texas at Dallas & Computer Science, USA); Marco Tacca (The University of Texas at Dallas, USA); Andrea Fumagalli (UTD, USA); Rongqing Hui (University of Kansas, USA)
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Blocking Resolution for Short Flows in Optical Flow Switching Networks

Zhengfeng Qian (Hangzhou Dianzi University, P.R. China); Kwok Wai Cheung (The Chinese University of Hong Kong, Hong Kong)
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Keynote Talk: Emerging Opportunities and Challenges with Smartphones: Crowdsourcing and User Authentication

Speaker: Guoliang Xue. Professor, Arizona State University, USA

Distinguished Lectures IV: Attentive Visual Processing - Towards User-Centric Visual Technologies

Speaker: Lina J. Karam, Professor, Arizona State University, USA

IP III: Invited Papers III

Wide-area Overlay Networking to Manage Science DMZ Accelerated Flows

Prasad Calyam (University of Missouri-Columbia, USA); Alex Berryman (Ohio Supercomputer Center/OARnet, The Ohio State University, USA); Erik Saule (University of North Carolina at Charlotte, USA); Hari Subramoni (The Ohio State University, USA); Gordon K Springer (University

of Missouri-Columbia, USA); Paul Schopis (OARnet, USA); Umit V. Catalyurek (The Ohio State University, USA); Dhableswar Panda (The Ohio State University, USA)
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Cross-Layer Optimization for Satellite-Terrestrial Heterogeneous Networks

Jihwan P. Choi (Daegu Gyeongbuk Institute of Science and Technology, Korea); Changhee Joo (UNIST, Korea)
pp. 276-281

Optimal Joint Viterbi Detector Decoder (JVDD) over AWGN/ISI Channel

Kheong Sann Chan (Data Storage Institute, Singapore); Sari Shafidah (Data Storage Institute, Singapore); Moulay Rachid Elidrissi (National University of Singapore, Singapore); Yong Liang Guan (Nanyang Technological University, Singapore)
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Battery Free Wireless Sensor Networks: Theory and Applications

Ali Abedi (University of Maine, USA)
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MCC: Multimedia Computing and Communications

Joint Multi-Video Compression for Robot Explorations

Yu Sun (University of Central Arkansas, USA); Michael Turney (University of Central Arkansas, USA)
pp. 358-362

Human Action Recognition using Meta Learning for RGB and Depth Information

Mohsen Amiri (University of British Columbia & Sharif University of Technology, and Simon Fraser University, Canada); Mahsa T. Pourazad (TELUS Communications Company, Canada); Panos Nasiopoulos (University of British Columbia, Canada); Victor CM Leung (The University of British Columbia, Canada)
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Enhancing Cloud Mobile 3D Display Gaming User Experience by Asymmetric Graphics Rendering

Yao Lu (University of California, San Diego, USA); Yao Liu (UC San Diego, USA); Sujit Dey (University of California, San Diego, USA)
pp. 368-374

A New Rate-Complexity-QP Algorithm (RCQA) for HEVC Intra-Picture Rate Control

Ling Tian (University of Electronic Science and Technology of China, P.R. China); Yimin Zhou (University of Electronic Science and Technology of China, P.R. China); Xiaojun Cao (Georgia State University, USA)
pp. 375-380

Secure Trust Management for Mobile Platforms

Raimund Ege (Northern Illinois University, USA)
pp. 381-385

Minimum Distortion Variance Concatenated Block Codes for Embedded Source Transmission

Suayb S. Arslan (Quantum Corporation, USA)
pp. 386-392

GCNC & WC: Green Computing, Networking, Communications & Wireless Communications

Performance Analysis of coherently detected FFH/BPSK with Maximal Ratio Combining Receiver Over Rayleigh Fading Channel with Multitone Jamming and Imperfect Channel Estimation

Yishan He (University of Electronic Science and Technology of China, P.R. China); Yufan Cheng (University of Electronic Science and Technology of China, P.R. China); Gang Wu (University of Electronic Science and Technology of China, P.R. China); Shaoqian Li (University of Electronic Science and Technology of China, P.R. China)

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Spectrum Sharing between Public Safety and Commercial Users in 4G-LTE

Haya Shajaiyah (Virginia Tech, USA); Ahmed Abdelhadi (Virginia Tech, USA); T. Charles Clancy (Virginia Tech, USA)

pp. 674-679

Chaos-Based Modulation for Blind and Coherent Signal Detection in Non-Cooperative TDD Cellular Networks with Large Antenna Arrays

Jose Lagunas-Morales (University of Sherbrooke, Canada)

pp. 680-685

Adaptive Energy-aware Free Viewpoint Video Transmission over Wireless Networks

Zhi Liu (National Institute of Informatics, The Graduate University for Advanced Studies, Japan); Jingyun Feng (National Institute of Informatics, The Graduate University for Advanced Studies, Japan); Yusheng Ji (National Institute of Informatics, Japan); Yongbing Zhang (University of Tsukuba, Japan)

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Renewable Energy-Aware Grooming in IP-over-WDM Networks

Thilo Schöndienst (University of Massachusetts Lowell, USA); Vinod M. Vokkarane (University of Massachusetts Lowell & Massachusetts Institute of Technology (MIT), USA)

pp. 163-167

Network Aware Job Scheduling in Green Data Centers

Derya Çavdar (Bogazici University & IBM Research Zurich Lab, Turkey); Fatih Alagoz (Bogazici University, Turkey)

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Distinguished Lectures V: Everlasting Security and Undetectability in Wireless Communications

Speaker: Dennis Goeckel, Professor, University of Massachusetts at Amherst, USA

IP IV: Invited Papers IV

The Cost of Loop Free Alternates in IP Over WDM

Ćiril Rožić (University of Hawaii, USA); Galen Sasaki (University of Hawaii, USA)

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Adding Dimensions to Wireless Systems with Orientation-Aware Devices and Reconfigurable Antennas

Daniel Tunon (Texas A&M University, USA); Jean-Francois Chamberland (Texas A&M University, USA); Gregory Huff (Texas A&M University, USA)

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Adaptive coverage for high data rate LTE Networks

Rami Sabouni (Carleton University, Canada); Roshdy H Hafez (Carleton University, Canada); Marc St-Hilaire (Carleton University, Canada)

pp. 303-307

Evolution to Future DWDM Centric Multi Service Converged Metro Network

Lynn Lu (Ericsson, P.R. China); Zere Ghebretensae (Ericsson, Sweden); Björn Skubic (Ericsson AB, Sweden); Fabio Cavaliere (Ericsson Telecomunicazioni, Italy); Xiaoxia Zhou (China Unicom, P.R. China); Guangquan Wang (China Unicom, P.R. China)

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MCVC: Mobile Computing and Vehicle Communications

DA2RF: A Data Aggregation Algorithm by Restricting Forwarders for VANETs

Yuan Yuan (Peking University, P.R. China); Jie Luo (School of EECS, Peking University, P.R. China); Wei Yan (Peking University, P.R. China); Tong Zhao (Peking University, P.R. China); Shanbo Lu (Peking University, P.R. China)

Sober-Drive: A Smartphone-assisted Drowsy Driving Detection System

Lunbo Xu (Peking University, P.R. China); Shunyang Li (Peking University, P.R. China); Kaigui Bian (Peking University, P.R. China); Tong Zhao (Peking University, P.R. China); Wei Yan (Peking University, P.R. China)

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Performance Analysis of EDCA with Strict Priorities Broadcast in IEEE802.11p VANETs

Ping Wang (Tongji University, P.R. China); Fei Wang (Tongji University, P.R. China); Yusheng Ji (National Institute of Informatics, Japan); Fuqiang Liu (Tongji University, P.R. China); Xinhong Wang (Tongji University, P.R. China)

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SideEye: Mobile Assistant for Blind Spot Monitoring

Sanjeev Singh (University of South Carolina, USA); Rufeng Meng (University of South Carolina, USA); Srihari Nelakuditi (University of South Carolina, USA); Yan Tong (University of South Carolina, USA); Song Wang (University of South Carolina, USA)

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FQGWs: A Gateway Selection Algorithm in a Hybrid Clustered-VANET LTE-Advanced Network: Complexity and Performances

Ghayet el mouna Zhioua (Telecom ParisTech - FRANCE, France); Houada Labiod (TELECOM ParisTech (ex: ENST), France); Nabil Tabbane (Sup'com, Tunisia); Sami Tabbane (Sup Telecom, Tunisia)

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Performance Analysis of an Adaptive Rate-Range Control Algorithm for VANET Safety Applications

Muhammad Awais Javed (University of Newcastle, Australia); Jamil Y Khan (The University of Newcastle, Australia)

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CLD: Cloud Computing Big Data & Data Storage Technology and Applications

Design of Reliable Virtual Infrastructure Using Local Protection

Hao Di (University of Electronic Science and Technology of China, P.R. China); Vishal Anand (The College at Brockport, State University of New York, USA); Hongfang Yu (University of Electronic Science and Technology of China, P.R. China); Le Min Li (University of Electronic Science and Technology of China, P.R. China); Dan Liao (University of Electronic Science and Technology of China, P.R. China); Gang Sun (University of Electronic Science and Technology of China, P.R. China)

pp. 63-67

An Overlay Network Construction Technique for Minimizing the Impact of Physical Network Disruption in Cloud Storage Systems

Katsuya Suto (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nei Kato (Tohoku University, Japan); Takayuki Nakachi (NTT, Japan); Tatsuya Fujii (NTT Network Innovation Laboratories, Japan); Atsushi Takahara (NTT, Japan)

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Shadow Computing: An Energy-Aware Fault Tolerant Computing Model

Bryan Mills (University of Pittsburgh, USA); Taieb Znati (University of Pittsburgh, USA); Rami Melhem (University of Pittsburgh, USA)

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On the Impact of Coding Parameters on Storage Requirement of Region-based Fault Tolerant Distributed File System Design

Sujogya Banerjee (Arizona State University, USA); Arun Das (Arizona State University, USA); Anisha Mazumder (Arizona State University, USA); Zahra Derakhshandeh (Arizona State University, USA); Arunabha Sen (ASU, USA)

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Multilevel Interleaved Reed-Solomon Codes Using Soft Information for Magnetic Recording Channels

Ismail Demirkan (Broadcom Corporation, USA); Gregory Silvus (Broadcom Corporation, USA)

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Soft Intertrack Interference Cancellation for Two-Dimensional Magnetic Recording

Elnaz Banan Sadeghian (Georgia Institute of Technology, USA); John Barry (Georgia Institute of Technology, USA)

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Distinguished Lectures VI: The Great Indoors: The Next Frontier in Mobile Positioning

Speaker: Ayman Naguib, Director, Qualcomm, USA

IP V: Invited Papers V

Vertical Constrained Coding for Phase-Change Memory with Thermal Crosstalk

Kui Cai (Data Storage Institute, Singapore)

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Highly accurate video object identification utilizing hint information

Liang Peng (Utah State University, USA); Yimin Yang (Florida International University, USA);

Xiaojun Qi (Utah State University, USA); Haohong Wang (TCL Research America, USA)

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