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IEEE INFOCOM 2011 Workshop On Cognitive & Cooperative Networks

Committees and welcome

Sunday, April 10

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Committees and welcome

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Marta Barrilero (Universidad Politécnica de Madrid, Spain); Silvia Uribe (Universidad Politécnica de Madrid, Spain); Maria Alduan (Universidad Politécnica de Madrid, Spain); Faustino A. Sánchez (Universidad Politécnica de Madrid, Spain); Federico Alvarez (Universidad Politecnica de Madrid, Spain)
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Committees

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Junmin Gu (Lawrence Berkeley National Laboratory, USA); Dimitrios Katramatos (Brookhaven National Laboratory, USA); Xin Liu (Brookhaven National Laboratory, USA); Vijaya Natarajan (Lawrence Berkeley National Laboratory, USA); Arie Shoshani (Lawrence Berkeley National Laboratory, USA); Alex Sim (Lawrence Berkeley National Laboratory, USA); Dantong Yu (BNL, Upton, USA); Scott Bradley (Brookhaven National Laboratory, USA); Shawn McKee (University of Michigan, USA)

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Dynamic Scheduling for Workflow Applications over Virtualized Optical Networks

Yaohui Jin (Shanghai Jiaotong University, P.R. China)

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A Backward-Compatible Inter-domain Multipath Routing Framework

Xiaomin Chen (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany); Mohit Chamania (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany); Admela Jukan (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany)

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Efficient PCE-Based Survivable Path Computation in Multi-Domain Networks

Qiong Zhang (Fujitsu Laboratories of America, USA); Mohammad Masud Hasan (Elizabeth City State University, USA); Xi Wang (Fujitsu Laboratories of America, USA); Papparao Palacharla (FLA, USA); Motoyoshi Sekiya (Fujitsu Laboratories of America, Inc., USA)

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Circuit Planning Tool over Heterogeneous Networks

Guangzhi Li (AT&T Labs - Research, USA); Dahai Xu (AT&T Labs - Research, USA); Dongmei Wang (AT&T Labs - Research, USA); Angela Chiu (AT&T Laboratories, USA); Robert Doverspike (AT&T Labs - Research, USA)

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Ethernet Burst Transport for Next Generation Optical Metro Networks

Angelo Germoni (Co. Ri. Tel., Italy); Patrizia Testa (CoRiTeL, Italy); Roberto Sabella (Ericsson, Italy); Marco Listanti (University of Rome "La Sapienza", Italy)

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Gangxiang Shen (Soochow University, P.R. China); Yunfeng Shen (Ciena, USA); Harshad Sardesai (Ciena, USA)

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Impairment and Regenerator Aware Lightpath Setup Using Distributed Reachability Graphs

V. S. Chava (Create-net, Italy); Elio Salvadori (Create-Net, Italy); Andrea Zanardi (Create-Net, Italy); Sergio Dalsass (Create-Net, Italy); Gabriele Maria Galimberti (Cisco Photonics, Italy); Alberto Tanzi (Cisco Photonics, Italy); Giovanni Martinelli (Cisco Photonics, Italy); Ori Gerstel (Cisco Systems, Israel)

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Pragatheeswaran Angu (University of Nebraska Lincoln, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)

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Zalan Heszberger (Budapest University of Technology and Ec., Hungary); János Tapolcai (Budapest University of Technology and Economics, Hungary); András Gulyás (Budapest University of Technology and Economics, Hungary); Jozsef Biro (Budapest University of Technology and Economics, Hungary); András Zahemszky (Ericsson Research, Finland); Pin-Han Ho (University of Waterloo, Canada)

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Adaptive Scheduling for Wireless Video Transmission in High-Speed Networks

Zheng Wan (Jiangxi University of Finance and Economics, P.R. China); Naixue Xiong (Georgia State University, US, USA); Nasir Ghani (University of New Mexico, USA); Min Peng (Wuhan University, P.R. China); Athanasios Vasilakos (National Technical University of Athens, Greece); Liang Zhou (Technical University of Munich, Germany)

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IEEE INFOCOM 2011 Workshop on M2MCN-2011

Committees and welcome

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Optimization Models for Energy Reallocation in a Smart Grid

Kendall E. Nygard (North Dakota State University, USA); Prakash Ranganathan (University of North Dakota, USA); Steve Bou Ghosn (North Dakota State University, USA); Md. Chowdhury (North Dakota State University, USA); Davin Loegering (North Dakota State University, USA); Ryan McCulloch (North Dakota State University, USA)

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Resource Allocation for Security Services in Mobile Cloud Computing

Liang Hongbin (University of Waterloo, Canada); Dijiang Huang (Arizona State University, USA); Lin X. Cai (Princeton University, USA); Sherman Shen (University of Waterloo, Canada); Peng Daiyuan (Southwest Jiaotong University, P.R. China)

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Distributed Rate and Admission Control in Home M2M networks: A Non-cooperative Game Approach

Rong Yu (Guangdong University of Technology & South China University of Technology, P.R. China); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway); Yanrong Chen (South China University of Technology, P.R. China); Chujia Huang (South China University of Technology, P.R. China); Yang Xiao (The University of Alabama, USA); Mohsen Guizani (WMU, USA)

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Routing

A Novel Routing and Data Transmission Method for Stub Network of Internet of Things based on Percolation

Xiangming Li (Beijing Institute of Technology, P.R. China); Ji-hua Lu (Beijing Institute of Technology, P.R. China); Jie Yang (Beijing Institute of Technology, P.R. China); Jianping An (Beijing Institute of Technology, P.R. China)

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Cross-layer Routing in Wireless Sensor Networks for Machine-to-Machine Intelligent Hazard Monitoring Applications

Yuanyuan Zeng (Wuhan University, P.R. China); Naixue Xiong (Georgia State University, US, USA); Laurence T. Yang (St. Francis Xavier University, Canada); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway)

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On Path Planning Strategies for Networked Unmanned Aerial Vehicles

Evsen Yanmaz (University of Klagenfurt, Austria); Robert Kuschnig (Klagenfurt University, Austria); Markus Quaritsch (Klagenfurt University, Austria); Christian Bettstetter (University of Klagenfurt, Austria); Bernhard Rinner (Klagenfurt University, Austria)

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System and Protocol Design

ENERSip: M2M-based platform to enable energy efficiency within energy-positive neighbourhoods

Gregorio López (Universidad Carlos III de Madrid, Spain); Pedro Moura (Institute of Systems and Robotics - University of Coimbra, Portugal); Jose Ignacio Moreno (Universidad Carlos III de Madrid, Spain); Aníbal T de Almeida (University of Coimbra, Portugal)
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Enhancing the Performance of LEACH Protocol in Wireless Sensor Networks

Yun Li (ChongQing University of Posts and Telecommunications of China, P.R. China); Nan Yu (Chongqing University of Posts and Telecommunications, P.R. China); Weiyi Zhang (AT&T Labs - Research, USA); Weiliang Zhao (Chongqing University of Posts and Telecommunications, P.R. China); Xiaohu You (National Mobile communication Research Lab., Southeast University, P.R. China); Mahmoud Daneshmand (AT&T, USA)
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FIAP: Facility Information Access Protocol for Data-Centric Building Automation Systems

Hideya Ochiai (The University of Tokyo, Japan); Masahiro Ishiyama (Toshiba Corporation, Japan); Tsuyoshi Momose (Cisco Systems, Japan); Noriaki Fujiwara (Panasonic Electric Works, Japan); Kosuke Ito (Ubiteq, Japan); Hirohito Inagaki (Nippon Telegraph and Telephone Corporation, Japan); Akira Nakagawa (NTT Cyber Space Laboratories, Japan); Hiroshi Esaki (The University of Tokyo, Japan)
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Security & Management

Colluding Injected Attack in Mobile Ad-hoc Networks

Farah Kandah (North Dakota State University, USA); Yashaswi Singh (NDSU, USA); Chonggang Wang (InterDigital Communications, USA)
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HealthKiosk: A Family-Based Connected Healthcare System for Long-Term Monitoring

Chi Harold Liu (IBM Research - China, P.R. China); Jia Jia Wen (IBM, P.R. China); Qi Yu (IBM Research China, P.R. China); Bo Yang (IBM China Research Lab, P.R. China); Wenjie Wang (IBM Research China, P.R. China)
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Efficient Prioritized Congestion Management for Social Network Based Live Sharing

Yili Gong (Wuhan University, P.R. China); Wenjie Wang (IBM Research China, P.R. China); Chi Harold Liu (IBM Research - China, P.R. China)
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IEEE INFOCOM 2011 Workshop on Green Communications and Networking

Committees

Friday, April 15

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Recent Progresses on Green Wireless Research

S2: Green Wireless Communications and Networking 1

Session Chair: Victor C.M. Leung (The University of British Columbia, Canada)

Power-Efficient Mobile Backhaul Design for CoMP Support in Future Wireless Access Systems

Luca Scalia (DOCOMO Euro-Labs, Germany); Thorsten Biermann (DOCOMO Euro-Labs, Germany); Changsoon Choi (DOCOMO Communications Laboratories Europe, Germany)
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On the Design of Relay Caching in Cellular Networks for Energy Efficiency

Xiaolei Wang (Tsinghua University, P.R. China); Yanan Bao (Tsinghua University, P.R. China); Xin Liu (UC Davis, USA); Zhisheng Niu (Tsinghua University, P.R. China)
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E2R: Energy Efficient Routing for Multi-hop Green Wireless Networks

Ting Zhu (University of Massachusetts Amherst, USA); Don Towsley (University of Massachusetts at Amherst, USA)
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B1: Networking Break

S3: Green Wireless Communications and Networking 2

Session Chair: Xi Zhang (Texas A&M University, USA)

Energy-Efficient Rate Adaptation for Outdoor Long Distance WiFi Links

Zhibin Dou (Tianjin University, P.R. China); Zenghua Zhao (Tianjin University, P.R. China); Quan Jin (Tianjin University, P.R. China); Lianfang Zhang (Tianjin University, P.R. China); Yantai Shu (Tianjin University, P.R. China); Oliver Yang (University of Ottawa, Canada)
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Scheduling Recurring Tasks in Energy Harvesting Sensors

David Audet (University of Victoria, Canada); Leandro Collares de Oliveira (University of Victoria, Canada); Neil MacMillan (University of Victoria, Canada); Dimitri Marinakis (University of Victoria, Canada); Kui Wu (University of Victoria, Canada)
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On-Demand Based Wireless Resources Trading for Green Communications

Wenchi Cheng (Texas A&M University, USA); Xi Zhang (Texas A&M University, ECE Department, USA); Hailin Zhang (Xidian University, P.R. China); Qiang Wang (Xidian University, P.R. China)
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Energy-Aware Hierarchical Cell Configuration: from Deployment to Operation

Kyuhoo Son (University of Southern California, USA); Eunsung Oh (University of Southern California, USA); Bhaskar Krishnamachari (University of Southern California, USA)
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Energy Efficient Layered Broadcast/Multicast Mechanism in Green 4G wireless networks

Jingqing Mei (Beijing University of Posts and Telecommunications, P.R. China); Hong Ji (Beijing University of Posts and Telecommunications, P.R. China); Yi Li (Beijing University of Posts and Telecommunications, P.R. China)

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L1: Lunch

S4: Green Wired Communications and Networking 1

Session Chair: F. Richard Yu (Carleton University, Canada)

Green Network Technologies and the Art of Trading-off

Raffaele Bolla (University of Genoa, Italy); Roberto Bruschi (CNIT, Italy); Alessandro Carrega (University of Genoa, Italy); Franco R Davoli (University of Genoa, Italy)

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Stochastic Unit Commitment in Smart Grid Communications

Shengrong Bu (Carleton University, Canada); Richard Yu (Carleton University, Canada); Peter Liu (Carleton University, Canada)

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Evaluating the Energy Benefit of Dynamic Optical Bypass for Content Delivery

Kyle C Guan (Bell Labs, Alcatel-Lucent, USA); Dan Kilper (Bell Laboratories, USA); Gary Atkinson (Bell Labs, Alcatel-Lucent, USA)

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Keeping the Connectivity and Saving the Energy in the Internet

Francesca Cuomo (University of Rome Sapienza, Italy); Anna Abbagnale (University of Rome, Italy); Antonio Cianfrani (University of Roma "La Sapienza", Italy); Marco Polverini (University "La Sapienza" Roma, Italy)

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An OSPF Enhancement for energy saving in IP Network

Antonio Cianfrani (University of Roma "La Sapienza", Italy); Vincenzo Eramo (University of Rome "La Sapienza", Italy); Marco Listanti (University of Rome "La Sapienza", Italy); Marco Polverini (University "La Sapienza" Roma, Italy)

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Shuping Peng (University of Essex, United Kingdom)

Profiling Per-Packet and Per-Byte Energy Consumption in the NetFPGA Gigabit Router

Vijay Sivaraman (University of New South Wales, Australia); Arun Vishwanath (University of New South Wales, Australia); Zhi Zhao (University of New South Wales, Australia); Craig L Russell (CSIRO, Australia)

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An Energy-Aware Distributed Approach for Content and Network Management

Luca Chiaraviglio (Politecnico di Torino, Italy); Ibrahim Matta (Boston University, USA)

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Anna Tzanakaki (AIT, Greece); Markos P. Anastasopoulos (Athens Information Technology, Greece); Konstantinos Georgakilas (Athens Information Technology, Greece); Jens Buysse (Ghent University, Belgium); Marc De Leenheer (Ghent University, Belgium); Chris Develder (Ghent University - IBBT, Belgium); Shuping Peng (University of Essex, United Kingdom); Reza

Nejabati (University of Essex, United Kingdom); Eduard Escalona (University of Essex, United Kingdom); Dimitra Simeonidou (University of Essex, United Kingdom); Nicola Ciulli (Nextworks s.r.l., Italy); Giada Landi (Nextworks, Italy); Marc Brogle (SAP Research, Switzerland); Alessandro Manfredi (SAP, Italy); Ester López (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Jordi Ferrer Riera (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Joan A. Garcia-Espin (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Pasquale Donadio (Alcatel-Lucent Italia, Italy); Giorgio Parladori (Alcatel-Lucent, Italy); Javier Jiménez (TID, Spain)

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Lei Wang (Tsinghua University, P.R. China); Rui Lu (Tsinghua University, P.R. China); Qingshan Li (Tsinghua University, P.R. China); Xiaoping Zheng (Tsinghua University, P.R. China); Hanyi Zhang (Tsinghua University, P.R. China)

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Modeling Sleep Modes Gains with Random Graphs

Luca Chiaraviglio (Politecnico di Torino, Italy); Delia Ciullo (Politecnico di Torino, Italy); Marco Mellia (Politecnico di Torino, Italy); Michela Meo (Politecnico di Torino, Italy)

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2011 IEEE INFOCOM Workshop on Mobility Management in the Networks of the Future World

Committees and welcome

Sunday, April 10

S1: Session 1

Flat Access and Mobility Architecture: an IPv6 Distributed Client Mobility Management solution

Fabio Giust (Institute IMDEA Networks, Spain); Antonio De La Oliva (Universidad Carlos III de Madrid, Spain); Carlos J. Bernardos (Universidad Carlos III de Madrid, Spain)
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SAIL: A Scalable Approach for Wide-Area IP Mobility

Zhenkai Zhu (UCLA, USA); Ryuji Wakikawa (Toyota ITC, USA., Inc., USA); Lixia Zhang (University of California at Los Angeles, USA)
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A Design of Network-based Flow Mobility based on Proxy Mobile IPv6

Tran Minh Trung (Electronics and Telecommunications Research Institute, Korea); Youn-Hee Han (Korea University of Technology and Education, Korea); Hyon-Young Choi (Korea University, Korea); Yong-Geun Hong (ETRI, Korea)
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A DHT and MDP-based Mobility Management Scheme for Large-Scale Mobile Internet

Yujia Zhai (Tsinghua University, P.R. China); Yue Wang (Tsinghua University, P.R. China); Ilsun You (Korean Bible University, Korea); Jian Yuan (Tsinghua University, P.R. China); Yong Ren (Tsinghua University, Beijing, P.R. China); Xiuming Shan (Tsinghua University, P.R. China)
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S2: Session 2

A Dynamic Context-Aware Access Network Selection for Handover in Heterogeneous Network Environments

Peyman TalebiFard (The University of British Columbia, Canada); Victor CM Leung (The University of British Columbia, Canada)
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Adaptive Situation-Aware Load Balance Scheme for Mobile Wireless Mesh Networks

Guan-Lun Liao (National Ilan University, Taiwan); Chi-Yuan Chen (National Dong Hwa University, Taiwan); Shih-Wen Hsu (National Dong Hwa University, Taiwan); Tin-Yu Wu (Tamkang University, Taiwan); Han-Chieh Chao (National Ilan University, Taiwan)
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Control and Prediction in Hierarchical Wireless Networks

Stuart Milner (University of Maryland, USA); Christopher Davis (University of Maryland, USA); Jaime Llorca (University of Maryland, USA)
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A Timer-based Session Setup Procedure in Cellular-WLAN Integrated Systems

Gwangwoo Park (Korea University, Korea); Younghyun Kim (Korea University, Korea); Sangheon Pack (Korea University, Korea)
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Mobile Multimedia Sensor Networks: Architecture and Routing

Min Chen (Seoul National University, Korea); Mohsen Guizani (WMU, USA); Minh Jo (Korea

University, Korea)
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VeMAC: A Novel Multichannel MAC Protocol for Vehicular Ad Hoc Networks

Hassan A Omar (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada); Li Li (Communication Research Centre of Canada, Canada)
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1st IEEE International Workshop on Molecular and Nano Scale Communication (MoNaCom)

Committees and welcome

Sunday, April 10

SESSION I: Nanonetworking Communication Techniques

On attractant scheduling in networks based on bacterial communication

Yunlong Gao (Shanghai Jiao Tong University, P.R. China); Sriram Lakshmanan (Georgia Institute of Technology, USA); Raghupathy Sivakumar (Georgia Institute of Technology, USA)
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A Nanoscale Communication Channel with Fluorescence Resonance Energy Transfer (FRET)

Ozgur B. Akan (Koc University, Turkey); Murat Kuscu (Koc University, Turkey)
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PHLAME: A Physical Layer Aware MAC Protocol for Electromagnetic Nanonetworks

Joan Capdevila Pujol (UPC, Spain); Josep Miquel Jornet (Georgia Institute of Technology, USA); Josep Sole Pareta (UPC, Spain)
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Characterization of signal propagation in neuronal systems for nanomachine-to-neurons communications

Laura Galluccio (University of Catania, Italy); Sergio Palazzo (University of Catania, Italy); Giuseppe Santagati (University of Catania, Italy)
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Simulation-based Evaluation of the Diffusion-based Physical Channel in Molecular Nanonetworks

Nora Garralda (Universitat Politècnica de Catalunya, Spain); Ignacio Llatser (Universitat Politècnica de Catalunya, Spain); Albert Cabellos-Aparicio (Universitat Politècnica de Catalunya, Spain); Massimiliano Pierobon (Georgia Institute of Technology, USA)
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SESSION II: Networking Concepts for Molecular Communication

Artificial Backbone Neuronal Network for Nano Scale Sensors

Frank Walsh (Waterford Institute of Technology, Ireland); Noreen T Boyle (CRANN, Trinity College, Ireland); Adil Mardinoglu (Chalmers University of Technology, Sweden); Andrea Della Chiesa (Trinity College Dublin, Ireland); Dmitri D Botvich (Waterford Institute of Technology, Ireland); Adriele Prina-Mello (CRANN, Trinity College, Ireland); Sasitharan Balasubramaniam (TSSG, Waterford Institute of Technology, Ireland)
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Addressing by Beacon Coordinates using Molecular Communication

Michael J. Moore (Osaka University, Japan); Tadashi Nakano (Osaka University, Japan)
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Effects of Routing for Communication via Diffusion System in the Multi-node Environment

Mehmet Sukru Kuran (Bogazici University, Turkey); Huseyin Birkan Yilmaz (Bogazici University, Turkey); Tuna Tugcu (Bogazici University, Turkey)
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Diffusion-based Channel Characterization in Molecular Nanonetworks

Ignacio Llatser (Universitat Politècnica de Catalunya, Spain); Eduard Alarcón (Universitat

Politécnica de Catalunya, Spain); Massimiliano Pierobon (Georgia Institute of Technology, USA)
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A Simple Mathematical Model for Information Rate of Active Transport Molecular Communication

Nariman Farsad (York University, Canada); Andrew Eckford (York University, Canada); Satoshi Hiyama (NTT DOCOMO, Inc., Japan); Yuki Moritani (NTT DoCoMo, Inc., Japan)
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Micropatterning of Different Kinds of Biomaterials As a Platform of a Molecular Communication System

Satoshi Hiyama (NTT DOCOMO, Inc., Japan); Yuki Moritani (NTT DoCoMo, Inc., Japan); Kaori Kuribayashi-Shigetomi (The University of Tokyo, Japan); Hiroaki Onoe (The University of Tokyo, Japan); Shoji Takeuchi (The University of Tokyo, Japan)
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A neural nanonetwork model based on cell signaling molecules

Aron Szabó (Eötvös University, Hungary); Gábor Vattay (Eotvos University, Hungary); Daniel Kondor (Eötvös University, Hungary)
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Autonomous Excitation Transfer in Quantum Dot Mixtures via Network of Optical Near-Field Interactions at the Nanoscale

Makoto Naruse (National Institute of Information and Communications Technology, Japan); Ferdinand Peper (National Institute of Information and Communications Technology, Japan); Kenji Leibnitz (NICT, Japan); Kouichi Akahane (National Institute of Information and Communications Technology, Japan); Naokatsu Yamamoto (National Institute of Information and Communications Technology, Japan); Wataru Nomura (The University of Tokyo, Japan); Tadashi Kawazoe (The University of Tokyo, Japan); Takashi Yatsui (The University of Tokyo, Japan); Masayuki Murata (Osaka University, Japan); Motoichi Ohtsu (The University of Tokyo, Japan)
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A Robust Controller of Dynamic Networks and Its Verification by the Simulation of the Heat Shock Response Network with Reliable Signal Transmission

Jian-Qin Liu (National Institute of Information and Communications Technology, Japan)
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Repeater Design and Modeling for Molecular Communication Networks

Tadashi Nakano (Osaka University, Japan); Jianwei Shuai (Xiamen University, P.R. China)
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The Third International Workshop on Wireless Sensor, Actuator and Robot Networks

Committees and welcome

Sunday, April 10

S1: Mobility Management

Theoretical Treatment of Sink Scheduling Problem in Wireless Sensor Networks

Yu Gu (National Institute of Informatics, Japan); Yusheng Ji (National Institute of Informatics, Japan); Jie Li (University of Tsukuba, Japan); Baohua Zhao (, P.R. China)
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A Patrolling Scheme in Wireless Sensor and Robot Networks

Yanping Zhang (The University of Alabama, USA); Yang Xiao (The University of Alabama, USA)
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HYMN to Improve the Scalability of Wireless Sensor Networks

Ahmed E.A.A. Abdulla (Tohoku University, Japan); Hiroki Nishiyama (Tohoku University, Japan); Nirwan Ansari (NJIT, USA); Nei Kato (Tohoku University, Japan)
pp. 519-524

An Optimization-based Approach for Connecting Partitioned Mobile Sensor/Actuator Networks

Mustafa Sir (University of Missouri, USA); Izzet Senturk (Southern Illinois University Carbondale, USA); Esra Sisikoglu (University of Missouri, USA); Kemal Akkaya (Southern Illinois University Carbondale, USA)
pp. 525-530

Networking break

S2: Localization, Data Communications and Data Collection

Combining Scalability and Resource Awareness in Wireless Sensor Network Localization

Ralf Behnke (University of Rostock, Germany); Alexander Born (German Aerospace Center (DLR), Germany); Jakob Salzmann (University of Rostock, Germany); Dirk Timmermann (University of Rostock, Germany); Ralf Bill (Rostock University, Germany)
pp. 531-536

Diffusion Based Projection Method for Distributed Source Localization in Wireless Sensor Networks

Wei Meng (Nanyang Technological University, Singapore); Wendong Xiao (Institute for Infocomm Research, Singapore); Lihua Xie (University of Nanyang Technological University, Singapore); Ashish Pandharipande (Philips Research Laboratories, The Netherlands)
pp. 537-542

Hierarchical Collision-free Addressing Protocol(HCAP) for Body Area Networks

Samaneh Movassaghi (University of Technology, Sydney, Australia); Mehran Abolhasan (University of Technology Sydney, Australia); Justin Lipman (Intel R&D, P.R. China)
pp. 543-548

Proportionally Fair Rate Allocation in Regular Wireless Sensor Networks

Sriram Narayanan (University of Cincinnati, USA); Jung Hyun Jun (University of Cincinnati, USA); Vaibhav Pandit (University of Cincinnati, USA); Dharma P Agrawal (University of Cincinnati, USA)
pp. 549-554

Reliable Broadcast Transmission in Wireless Networks Based on Network Coding

Weiwei Fang (Beijing Jiaotong University, P.R. China); Feng Liu (Beijing Jiaotong University, P.R. China); Zhen Liu (Beijing Jiaotong University, P.R. China); Lei Shu (Osaka University, Japan); Shojiro Nishio (Osaka University, Japan)
pp. 555-559

3 Vectors Game and Balance Multicast Architecture Algorithms for Sensor Grid

Qingfeng Fan (PRISM - Université de Versailles-Saint-Quentin, France); Qiongli Wu (Ecole Centrale Paris, France); Naixue Xiong (Georgia State University, US, USA); Athanasios Vasilakos (National Technical University of Athens, Greece); Yanxiang He (School of computer science, Wuhan University, Wuhan, P.R. China)
pp. 560-565

Average Delay Analysis of Opportunistic Single Copy Delivery in Manhattan Area Using Biased Random Walk

Jung Hyun Jun (University of Cincinnati, USA); Weihuang Fu (University of Cincinnati, USA); Dharma P Agrawal (University of Cincinnati, USA)
pp. 566-571

Reducing Data Collection Latency in Wireless Sensor Networks with Mobile Elements

Liang He (University of Victoria, Canada); Jianping Pan (University of Victoria, Canada); Jingdong Xu (Nankai Univ, P.R. China)
pp. 572-577

Spatial Correlated Data Collection in Wireless Sensor Networks with Multiple Sinks

Bin Cheng (Shanghai Jiao Tong University, P.R. China); Zhezhuang Xu (Shanghai Jiao Tong University, P.R. China); Cailian Chen (Shanghai Jiao Tong University, P.R. China); Xinpeng Guan (Shanghai Jiao Tong University, P.R. China)
pp. 578-583

Energy-efficient Trust-based Aggregation in Wireless Sensor Networks

Zahra Taghikhaki (Twente University, The Netherlands); Nirvana Meratnia (University of Twente, The Netherlands); Paul Havinga (University of Twente, The Netherlands)
pp. 584-589

Energy-efficient Data Preservation in Intermittently Connected Sensor Networks

Masaaki Takahashi (Wichita State University, USA); Bin Tang (Wichita State University, USA); Neeraj Jaggi (Wichita State University, USA)
pp. 590-595

IEEE INFOCOM 2011 Workshop on Cloud Computing

Committees

Friday, April 15

CC0: Invited Talk: Enterprise Ready Cloud Computing with Applications to Disaster Recovery

CC1: Data Center Networks

Use of Devolved Controllers in Data Center Networks

Adrian Tam (Polytechnic Institute of NYU, USA); Kang Xi (Polytechnic Institute of New York University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)
pp. 596-601

A Novel Approach to Optically Switching Inter-Pod Traffic in Datacenters

Li-Mei Peng (Korea Advanced Institute of Science and Technology, Korea); Chunming Qiao (State University of New York at Buffalo, USA); Wan Tang (South-Central University for Nationalities, P.R. China); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea); Xinwan Li (Shanghai Jiao Tong University, P.R. China); Guiling Wu (Shanghai Jiaotong University, P.R. China); Jianping Chen (Shanghai Jiao Tong University, P.R. China); Ting Wang (NEC Laboratories America, USA)
pp. 602-607

Enabling Flow-based Routing Control in Data Center Networks using Probe and ECMP

Kang Xi (Polytechnic Institute of New York University, USA); Yulei Liu (Polytechnic Institute of New York University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)
pp. 608-613

CC2: Secure Data Storage

Secure Data Processing Framework for Mobile Cloud Computing

Dijiang Huang (Arizona State University, USA); Zhibin Zhou (Arizona State University, USA); Le Xu (Arizona State University, USA); Tianyi Xing (Arizona State University, USA); Yunji Zhong (Arizona State University, USA)
pp. 614-618

A Secured Cost-effective Multi-Cloud Storage in Cloud Computing

Yashaswi Singh (NDSU, USA); Farah Kandah (North Dakota State University, USA); Weiyi Zhang (AT&T Labs - Research, USA)
pp. 619-624

Deliverance from Trust through a Redundant Array of Independent Net-storages in Cloud Computing

Gansen Zhao (South China Normal University, P.R. China); Martin G. Jaatun (SINTEF, Norway); Athanasios Vasilakos (National Technical University of Athens, Greece); Asmund Nyre (SINTEF ICT, Norway); Stian Alapnes (Telenor R&I, Norway); Qiang Yue (GDEII, P.R. China); Yong Tang (South China Normal University, P.R. China)
pp. 625-630

CC3: Virtualization and Middleware

Egalitarian Stable Matching for VM Migration in Cloud Computing

Hong Xu (University of Toronto, Canada); Baochun Li (University of Toronto, Canada)
pp. 631-636

Exploiting Virtualization for Delivering Cloud-based IPTV Services

Vaneet Aggarwal (AT&T Labs - Research, USA); Xu Chen (AT&T Labs - Research, USA); Vijay Gopalakrishnan (AT&T Labs - Research, USA); Rittwik Jana (AT&T Labs Research, USA); K. K. Ramakrishnan (AT&T Labs - Research, USA); Vinay A. Vaishampayan (AT&T Labs - Research, USA)

pp. 637-641

AVMM: Virtualize Network Client with a Bare-metal and Asymmetric Partitioning Approach

Yuezhi Zhou (Tsinghua University, P.R. China); Yaoxue Zhang (Tsinghua University, P.R. China); Hao Liu (Tsinghua University, P.R. China); Naixue Xiong (Georgia State University, US, USA)

pp. 642-647

CC4: Cloud-based Applications and Services

Performance Optimization for Cyber Foraging Network via Dynamic Spectrum Allocation

Yang Cao (Huazhong University of Science and Technology, P.R. China); Yang Shiyong (Huazhong University of Science and Technology, P.R. China); Tao Jiang (Huazhong University of Science and Technology, P.R. China); Daiming Qu (Huazhong University of Science and Technology, Wuhan, Hubei, P.R. China)

pp. 648-653

Time-Critical Event Dissemination in Geographically Distributed Clouds

Chi-Jen Wu (National Taiwan University, Taiwan); Jan-Ming Ho (Academia Sinica, Taiwan); Ming-Syan Chen (National Taiwan University, Taiwan)

pp. 654-659

Low-cost Application Image Distribution on Worldwide Cloud Front Server

Yang Liu (North Dakota State University, USA); Shi Bai (North Dakota State University, USA); Weiyi Zhang (AT&T Labs - Research, USA); Jun Zhang (North Dakota State University, USA)

pp. 660-665

Cloud Model for Service Selection

Shanguang Wang (Beijing University of Posts and Telecommunications, P.R. China); Zibin Zheng (The Chinese University of Hong Kong, Hong Kong); Qibo Sun (Beijing University of Posts and Telecommunications, P.R. China); Hua Zou (Beijing University of Posts and Telecommunications, P.R. China); FangChun Yang (Beijing University of Posts & Telecommunications, P.R. China)

pp. 666-671

Cooperative Spectrum Sensing in TV White Spaces: When Cognitive Radio Meets Cloud

Chun-Hsien Ko (National Chiao Tung University, Taiwan); Din Hwa Huang (National Chiao Tung University, Taiwan); Sau-Hsuan Wu (National Chiao Tung University, Taiwan)

pp. 672-677

The First International Workshop on Cyber-Physical Networking Systems

Committees

Friday, April 15

Welcome and Opening Remarks

TS01: Vehicle Transportation Systems and Social Networks

Routing Schemes for Switch-based In-Vehicle Networks

Shuhui Yang (Purdue University Calumet, USA); Wei Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhiwei Xu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Wei Zhao (University of Macau, P.R. China)
pp. 678-683

Human Centric Data Fusion in Vehicular Cyber-Physical Systems

Aditya Wagh (State University of New York at Buffalo, USA); Xu Li (State University of New York at Buffalo, USA); Jingyan Wan (University at Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA); Changxu Wu (University at Buffalo, USA)
pp. 684-689

A Reservation-based Smart Parking System

Hongwei Wang (University of Nebraska-Lincoln, USA); Wenbo He (University of Nebraska-Lincoln, USA)
pp. 690-695

D-Card: A Distributed Mobile Phone Based System for Relaying Verified Friendships

Adam C. Champion (The Ohio State University, USA); Boying Zhang (The Ohio State University, USA); Jin Teng (The Ohio State University, USA); Zhimin Yang (Microsoft, USA)
pp. 696-701

Predicting Flu Trends using Twitter Data

Harshavardhan Achrekar (University of Massachusetts Lowell, USA); Avinash Gandhe (Scientific Systems Company Inc, USA); Ross Lazarus (Harvard Medical School, USA); Ssu-Hsin Yu (Scientific Systems Company Inc, USA); Benyuan Liu (University of Massachusetts Lowell, USA)
pp. 702-707

Coffee Break

Panel: Networking Aspects of CPS: Problems and Challenges

TS02: Security

A Game Theoretic Study of Attack and Defense in Cyber-Physical Systems

Chris Yu Tak Ma (Advanced Digital Sciences Center, Illinois at Singapore, Singapore); Nageswara Rao (Oak Ridge National Laboratory, USA); David K. Y. K. Y. Yau (Purdue University, USA)
pp. 708-713

On Secure and Resilient Telesurgery Communications over Unreliable Networks

Mehmet Tozal (University of Texas at Dallas, USA); Yongge Wang (University of North Carolina at Charlotte, USA); Ehab Al-Shaer (University of North Carolina Charlotte, USA); Kamil Sarac (University of Texas at Dallas, USA); Bhavani Thuraisingham (University of Texas at Dallas, USA); Bei-Tseng Chu (UNC Charlotte, USA)
pp. 714-719

Using Physiological Signals for Authentication in a Group Key Agreement Protocol

Kalvinder Singh (Australia Development Lab, IBM and Griffith University, Australia); Vallipuram Muthukumarasamy (Griffith University, Australia)
pp. 720-725

Lunch

TS03: Sensor Networking

SNIP: A Sensor Node-Initiated Probing Mechanism for Opportunistic Data Collection in Sparse Wireless Sensor Networks

Xiuchao Wu (University College Cork, Ireland); Kenneth N Brown (University College Cork, Ireland); Cormac J. Sreenan (University College Cork, Ireland)
pp. 726-731

A Cyber Physical Networking System for Monitoring and Cleaning up Blue-green Algae Blooms with Agile Sensor and Actuator Control Mechanism on Lake Tai

Dong Li (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Ze Zhao (Institute of Computing Technology, Chinese Academy of Science, P.R. China); Li Cui (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); He Zhu (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Le Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Zhaoliang Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Yi Wang (the Institute of Computing Technology, P.R. China)
pp. 732-737

Building Surface Mounted Wireless Sensor Network for Air Conditioner Energy Auditing

Peng Liu (Hangzhou Dianzi University, P.R. China); Song Zhang (Hangzhou Dianzi University, P.R. China); Jian Qiu (Hangzhou Dianzi University, P.R. China); Guojun Dai (Hangzhou Dianzi University, P.R. China)
pp. 738-743

Intelligent Wakening Scheme for Wireless Sensor Networks Surveillance

Rui Wang (Institute of Computing Technology of the Chinese Academy of Sciences, P.R. China); Lei Zhang (Institute of Computing Technology, Chinese Academy of Science, P.R. China); Li Cui (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
pp. 744-749

Battle Event Detection Using Sensor Networks and Distributed Query Processing

Mira Yun (The George Washington University, USA); Danielle Bragg (The George Washington University, USA); Amrinder Arora (The George Washington University, USA); Hyeong-Ah Choi (The George Washington University, USA)
pp. 750-755

Networking Break

TS04: Resource Management

Analysis and Experiments for Dual-Rate Beacon Scheduling in ZigBee/IEEE 802.15.4

Shantao Chen (Zhejiang University, P.R. China); Luis Almeida (Univerdidade do Porto, Portugal); Zhi Wang (Zhejiang University, P.R. China)
pp. 756-761

Scheduling and Control Co-Design under End-to-End Response Time Constraints in Cyber-Physical Systems

Kyung-Joon Park (DGIST, Korea); Man-Ki Yoon (University of Illinois at Urbana-Champaign, USA); Kyungtae Kang (Hanyang University, Korea); Chang-Gun Lee (Seoul National University, Korea)
pp. 762-767

Distributed Sampling Rate Adaptation for Networked Control Systems

Jia Bai (Vanderbilt University, USA); Emeka Eyisi (Vanderbilt University, USA); Yuan Xue (Vanderbilt University, USA); Xenofon Koutsoukos (Vanderbilt University, USA)

pp. 768-773

On Data Transmission Scheduling considering Switching Penalty in Mobile Sensor Networks

Yu Zhou (The George Washington University, USA); Danielle Bragg (The George Washington University, USA); Mira Yun (The George Washington University, USA); Hyeong-Ah Choi (The George Washington University, USA)

pp. 774-779

A Large-scale Field Study on 3G Wireless Network

Jingwen Liu (Dept. of Computer Science & Engineering, The Ohio State University, USA); Jin Teng (The Ohio State University, USA); Weidong Wang (Beijing University of Posts and Telecommunications, P.R. China); Yinghai Zhang (Beijing University of Posts and Telecommunications, P.R. China)

pp. 780-785

14th IEEE Global Internet Symposium 2011

Committees and welcome

Friday, April 15

S1: Network Architecture

Toward a Push-Scalable Global Internet

Sachin Kumar Agarwal (Deutsche Telekom AG, Laboratories, Germany)
pp. 786-791

Reducing DNS caching

Saleem N Bhatti (University of St Andrews, United Kingdom); Randall Atkinson (None--Independent, USA)
pp. 792-797

CombiHeader: Minimizing the Number of Shim Headers in Redundancy Elimination Systems

Sumanta Saha (Aalto University, Finland); Andrey Lukyanenko (Aalto University, Finland); Antti Ylä-Jääski (Helsinki University of Technology, Finland)
pp. 798-803

S2: Applications

Low-Rate, Flow-Level Periodicity Detection

Genevieve Bartlett (University of Southern California, USA); John Heidemann (University of Southern California, USA); Christos Papadopoulos (Colorado State University, USA)
pp. 804-809

Augment SCTP Multi-Streaming with Pluggable Scheduling

Yaogong Wang (North Carolina State University, USA); Injong Rhee (North Carolina State University, USA); Sangtae Ha (Princeton University, USA)
pp. 810-815

Stir: Spontaneous Social Peer-to-Peer Streaming

Anh Tuan Nguyen (University of Oslo, Norway); Baochun Li (University of Toronto, Canada); Michael Welzl (University of Oslo, Norway); Frank Eliassen (University of Oslo, Norway)
pp. 816-821

S3: Security and Reachability

Improving the Performance of Intrusion Detection using Dialog-based Payload Aggregation

Tobias Limmer (University of Erlangen, Germany); Falko Dressler (University of Innsbruck, Austria)
pp. 822-827

Fast and Scalable Method for Resolving Anomalies in Firewall Policies

Hassan Gobjuka (Verizon Labs, USA); Kamal Ahmat (City University of New York, USA)
pp. 828-833

IP Reachability Differences: Myths and Realities

He Yan (Colorado State University, USA); Benjamin Say (Colorado State University, USA); Brendan Sheridan (Colorado State University, USA); David Oko (Colorado State University, USA); Christos Papadopoulos (Colorado State University, USA); Dan Pei (AT&T Labs - Research, USA); Daniel Massey (Colorado State University, USA)

S4: Routing

Stabilizing BGP Routing without Harming Convergence

Xiaoqiang Wang (National University of Defense Technology, P.R. China); Olivier Bonaventure (Université catholique de Louvain, Belgium); Peidong Zhu (NUDT, P.R. China)

pp. 840-845

Understanding BGP Next-hop Diversity

Jaeyoung Choi (Seoul National University, Korea); Jong Han Park (University of California, Los Angeles, USA); Pei-chun Cheng (UCLA, USA); Dorian Kim (NTT Communications Inc., USA); Lixia Zhang (University of California at Los Angeles, USA)

pp. 846-851

Compact Routing on the Internet AS-Graph

Stephen D. Strowes (University of Glasgow, United Kingdom); Graham Mooney (Cisco Systems Ltd, United Kingdom); Colin Perkins (University of Glasgow, United Kingdom)

pp. 852-857

Minimum Disclosure Routing for Network Virtualization

Masaki Fukushima (KDDI R&D Laboratories Inc., Japan); Teruyuki Hasegawa (KDDI R&D Laboratories Inc., Japan); Toru Hasegawa (KDDI Labs., Japan); Akihiro Nakao (University of Tokyo, Japan)

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Third International Workshop on Network Science for Communication Networks

Committees and welcome

Thursday, April 14

WS11: Keynote Talk 1: Prof. Don Towsley, University of Massachusetts, Amherst, MA, USA

WS11: NetSciCom Session 1

k-Robust Network Design Using Resistance Distance: Case of RocketFuel and Power Grids

Ali Tizghadam (University of Toronto, Canada); Alireza Bigdeli (University of Toronto, Canada); Alberto Leon-Garcia (University of Toronto, Canada)
pp. 864-869

WS11: Coffee Break

WS11: NetSciCom Session 2

Beyond Graphs: Capturing Groups in Networks

Ram Ramanathan (BBN Technologies, USA); Amotz Bar-Noy (Brooklyn College & Graduate Center, CUNY, New York, USA); Prithwish Basu (BBN Technologies, USA); Matthew P Johnson (City University of New York, USA); Wei Ren (University of California, Davis, USA); Ananthram Swami (Army Research Lab., USA); Qing Zhao (University of California at Davis, USA)
pp. 870-875

A Complex Network Analysis of Human Mobility

Theus Hossmann (ETH Zurich, Switzerland); Thrasyvoulos Spyropoulos (EURECOM, France); Franck Legendre (ETH Zürich, Switzerland)
pp. 876-881

On the Impact of Graph Structure on Mobility in Opportunistic Mobile Networks

Christoph P. Mayer (Karlsruhe Institute of Technology (KIT), Germany); Oliver P. Waldhorst (Ilmenau University of Technology, Germany)
pp. 882-887

Optimizing Topology in Bit Torrent Based Networks

Joydeep Chandra (Indian Institute of Technology, India); Sascha Delitzscher (Bielefeld University, Germany); Niloy Ganguly (Indian Institute of Technology Kharagpur, India); Ashish Jhunjhunwala (Indian Institute of Technology, Kharagpur, India); Tyll Krueger (Bielefeld University, Germany); Naveen Kumar Sharma (Indian Institute of Technology, Kharagpur, India)
pp. 888-893

A Temporal View of The Topology of Dynamic Bittorrent Swarms

Mohamad Dikshie Fauzie (Keio University, Japan); Achmad Husni Thamrin (Keio University, Japan); Rodney Van Meter (Keio University, Japan); Jun Murai (KEIO University, Japan)
pp. 894-899

WS11: Lunch

WS11: Keynote Talk 2: Prof. Ariel Orda, Technion, Technion City, Haifa, Israel

WS11: NetSciCom Session 3

Non-Binary Information Propagation: Modeling BGP Routing Churn

Nicholas Valler (University of California, Riverside, USA); Michael Butkiewicz (University of California, Riverside, USA); B. Aditya Prakash (Carnegie Mellon University, USA); Michalis Faloutsos (University of California, Riverside, USA); Christos Faloutsos (Carnegie Mellon University, USA)

pp. 900-905

A Generalized Prediction Framework for Granger Causality

Christopher Quinn (University of Illinois at Urbana-Champaign, USA); Todd P Coleman (University of California, San Diego, USA); Negar Kiyavash (University of Illinois at Urbana-Champaign, USA)

pp. 906-911

WS11: Invited Talk: Brendan Madden, Tom Sawyer Software, Oakland, CA, USA

WS11: NetSciCom Session 4

ISCoDe: a framework for interest similarity-based community detection in social networks

Eva Jaho (National & Kapodistrian University of Athens, Greece); Merkourios Karaliopoulos (National and Kapodistrian University of Athens, Greece); Ioannis Stavrakakis (National and Kapodistrian University of Athens, Greece)

pp. 912-917

Measuring User Activity on an Online Location-based Social Network

Salvatore Scellato (University of Cambridge, United Kingdom); Cecilia Mascolo (University of Cambridge, United Kingdom)

pp. 918-923

Empirical Analysis of the Evolution of Follower Network: A Case Study on Douban

Junzhou Zhao (Xi'an Jiaotong University, P.R. China); John Chi Shing Lui (Chinese University of Hong Kong, Hong Kong); Don Towsley (University of Massachusetts at Amherst, USA); Xiaohong Guan (Xi'an Jiaotong University, P.R. China); Yadong Zhou (Xian Jiaotong University, P.R. China)

pp. 924-929

On Allocating Interconnecting Links against Cascading Failures in Cyber-Physical Network

Osman Yagan (University of Maryland, USA); Dajun Qian (Arizona State University, USA); Junshan Zhang (Arizona State University, USA); Douglas Cochran (Arizona State University, USA)

pp. 930-935

Link prediction in bipartite graphs using internal links and weighted projection

Oussama Allali (LIP6 - CNRS and UPMC, France); Clémence Magnien (CNRS, France); Matthieu Latapy (LIP6 - CNRS and UPMC, France)

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The First International Workshop on Security in Computers, Networking and Communications

Committees

Friday, April 15

S1: System Security

Contextual Role-based Security Enhancement Mechanism for 2G-RFID Systems

Wan Tang (South-Central University for Nationalities, P.R. China); Jin Ni (Henan University, P.R. China); Min Chen (Seoul National University, Korea); XiMin Yang (South-Central University for Nationalities, P.R. China)

pp. 942-946

Browsing Behavior Mimicking Attacks on Popular Web Sites for Large Botnets

Shui Yu (Deakin University, Australia); Guofeng Zhao (Chongqing University of Posts and Telecommunications, P.R. China); Song Guo (University of Aizu, Japan); Yang Xiang (Deakin University, Australia); Athanasios Vasilakos (National Technical University of Athens, Greece)

pp. 947-951

Discriminating DDoS Attack Traffic from Flash Crowd through Packet Arrival Patterns

Theerasak Thapngam (Deakin University, Australia); Shui Yu (Deakin University, Australia); Wanlei Zhou (Deakin University, Australia); Gleb Beliakov (Deakin University, Australia)

pp. 952-957

EagleEye: A Logging Framework for Accountable Distributed and Networked Systems

Nandhakumar Kathiresshan (The University of Alabama, USA); Zhifeng Xiao (The University of Alabama, USA); Yang Xiao (The University of Alabama, USA)

pp. 958-963

Stepping Stone Detection at The Server Side

Ruei-Min Lin (Academia Sinica, Taiwan); Yi-Chun Chou (National Taiwan University, Taiwan); Kuan-Ta Chen (Academia Sinica, Taiwan)

pp. 964-969

PEACE: An Efficient and Secure Patient-centric Access Control Scheme for eHealth Care System

Mrinmoy Barua (University of Waterloo, Canada); Xiaohui Liang (University of Waterloo, Canada); Rongxing Lu (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)

pp. 970-975

L-WMxD: Lexical based Webmail XSS Discoverer

Zhushou Tang (Shanghai Jiao Tong University, P.R. China); Haojin Zhu (Shanghai Jiao Tong University, P.R. China); Zhenfu Cao (Shanghai Jiao Tong University, P.R. China); Shuai Zhao (Shanghai Jiao Tong University, P.R. China)

pp. 976-981

How Resilient are Individual ASes against AS-Level Link Failures?

Wenping Deng (National University of Defense Technology, P.R. China); Peidong Zhu (NUDT, P.R. China); Naixue Xiong (Georgia State University, US, USA); Yang Xiao (The University of Alabama, USA); Xiaofeng Hu (National University of Defense Technology, P.R. China)

pp. 982-987

S2: Security and Privacy

Concealing of the Sink Location in WSNs by Artificially Homogenizing Traffic Intensity

Bidi Ying (University of Ottawa, Canada); Jose R. Gallardo (University of Ottawa, Canada);

Dimitrios Makrakis (University of Ottawa, Canada); Hussein Mouftah (University of Ottawa, Canada)
pp. 988-993

A Three-Dimensional Approach Towards Measuring Sender Anonymity

Neeraj Jaggi (Wichita State University, USA); Umesh MarappaReddy (Wichita State University, USA); Rajiv Bagai (Wichita State University, USA)
pp. 994-999

Improved IP Multimedia Subsystem Authentication Mechanism for 3G-WLAN Networks

Madhu J Sharma (University of British Columbia, Canada); Victor CM Leung (The University of British Columbia, Canada)
pp. 1000-1005

Lightweight Privacy-Preserving Routing and Incentive Protocol for Hybrid Ad Hoc Wireless Network

Mohamed Mahmoud (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
pp. 1006-1011

SANC: Source Authentication Using Network Coding

Ahmed Fathy (Nile University, Egypt); Tamer ElBatt (Nile University, Egypt); Moustafa Youssef (Egypt-Japan University of Science and Technology (E-JUST), Egypt)
pp. 1012-1017

Towards a Light-weight Message Authentication Mechanism Tailored for Smart Grid Communications

Mostafa M. Fouda (Tohoku University, Japan); Zubair Md. Fadlullah (Tohoku University, Japan); Nei Kato (Tohoku University, Japan); Rongxing Lu (University of Waterloo, Canada); Sherman Shen (University of Waterloo, Canada)
pp. 1018-1023

S3: Secure Algorithm

A New Enforcement on Declassification with Reachability Analysis

Cong Sun (Peking University, P.R. China); Liyong Tang (Peking University, P.R. China); Zhong Chen (School of Electronics Engineering and Computer Science, Peking University, P.R. China)
pp. 1024-1029

Speeding up Pattern Matching by Optimal Partial String Extraction

Tan Jianlong (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Liu Xia (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Liu Yanbing (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Liu Ping (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China)
pp. 1030-1035

Traffic-aware Top-N Firewall Approximation Algorithm

Ho-Yu Lam (Polytechnic Institute of New York University, USA); Donghan Wang (Carnegie Mellon University, USA); H. Jonathan Chao (Polytechnic Institute of New York University, USA)
pp. 1036-1041

A Novel Data Streaming Method Detecting Superpoints

Weijiang Liu (Dalian Maritime University, P.R. China); Wenyu Qu (Dalian Maritime University, P.R. China); Gong Jian (Southeast University, P.R. China); Li Keqiu (Dalian University of Technology, P.R. China)
pp. 1042-1047

Exclusion-Intersection Encryption

Sherman S. M. Chow (University of Waterloo, Canada); Siu Ming Yiu (The University of Hong Kong, Hong Kong)
pp. 1048-1053

Identifying Bad Measurements in Compressive Sensing

S4: Trustable Service

SDSM: A Secure Data Service Mechanism in Mobile Cloud Computing

Weiwei Jia (Hohai University, P.R. China); Haojin Zhu (Shanghai Jiao Tong University, P.R. China); Zhenfu Cao (Shanghai Jiao Tong University, P.R. China); Lifei Wei (Shanghai Jiao Tong University, P.R. China); Xiaodong Lin (University of Ontario Institute of Technology, Canada)
pp. 1060-1065

Rendezvous Based Trust Propagation to Enhance Distributed Network Security

Ningning Cheng (University of California, Davis, USA); Kannan Govindan (University of California Davis, USA); Prasant Mohapatra (University of California, Davis, USA)
pp. 1066-1070

Enforce Truth-Telling in Wireless Relay Networks for Secure Communication

Shuhang Liu (Peking University, P.R. China); Rongqing Zhang (Peking University, P.R. China); Lingyang Song (Peking University, P.R. China); Zhu Han (University of Houston, USA); Bingli Jiao (Peking University, P.R. China)
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