Mini Conference

The map of the rooms is available here

Monday, April 15

8:30-9:00 Mini Conference Opening (Room: Sala 500)
9:00-10:30

MC - Cloud computing and networks 1

Room: Sala 500

Chair: Athanasios V. Vasilakos (National Technical University of Athens, Greece)

**Profit-Maximizing Virtual Machine Trading in a Federation of Selfish Clouds**

Hongxing Li (The University of Hong Kong, Hong Kong); Chuan Wu (The University of Hong Kong, Hong Kong); Zongpeng Li (University of Calgary, Canada); Francis C.M. Lau (The University of Hong Kong, Hong Kong)

**DPack: Disk Scheduler for Highly Consolidated Cloud**

Orathai Sukwong (Carnegie Mellon University, USA); Hyong Kim (Carnegie Mellon University, USA)

**HBaseMQ: A Distributed Message Queuing System on Clouds with HBase**

Chen Zhang (McGill University, Canada); Xue Liu (McGill University, Canada)
Dache: A Data Aware Caching for Big-Data Applications Using The MapReduce Framework

Yaxiong Zhao (Amazon.com Inc, USA); Jie Wu (Temple University, USA)

MC - Wireless networks 1

Room: Londra

Chair: Hongyi Wu (University of Louisiana at Lafayette, USA)

Multi-point to Multi-point MIMO in Wireless LANs

Sangki Yun (University of Texas at Austin, USA); Lili Qiu (The University of Texas at Austin, USA); Apurv Bhartia (University of Texas at Austin, USA)

Beam Scheduling and Relay Assignment in Wireless Relay Networks with Smart Antennas
Brendan Mumey (Montana State University, USA); Jian Tang (Syracuse University, USA); Ivan Judson (WebFilings, LLC, USA); Richard S. Wolff (Montana State University, USA)

**Maximizing Wireless Network Capacity with Linear Power: Breaking The Logarithmic Barrier**

Peng-Jun Wan (Illinois Institute of Technology, USA); Lei Wang (Dalian University of Technology, P.R. China); Chao Ma (Illinois Institute of Technology, USA); Zhu Wang (Illinois Institute of Technology, USA); Boliu Xu (Illinois Institute of Technology, USA); Minming Li (City University of Hong Kong, Hong Kong)

**Concurrent Channel Access and Estimation for Scalable Multiuser MIMO Networking**

Tsung-Han Lin (Harvard University, USA); Ht Kung (Harvard University, USA)

**MC - Sensor networks 1**

Room: Madrid

Chair: Faramarz Fekri (Georgia Institute of Technology, USA)
**LCS: Compressive Sensing based Device-Free Localization for Multiple Targets in Sensor Networks**

Ju Wang (Northwest University, P.R. China); Dingyi Fang (Northwest University, P.R. China); Xiaojiang Chen (Northwest University, P.R. China); Zhe Yang (UVic, Canada); Tianzhang Xing (Northwest University, P.R. China); Lin Cai (University of Victoria, Canada)

**Medium Access Control Protocol Design for Sensors Powered by Wireless Energy Transfer**

Prusayon Nintanavongsa (Northeastern University, USA); M. Yousof Naderi (Northeastern University, USA); Kaushik Chowdhury (Northeastern University, USA)

**On Distributed Sensing Scheduling to Achieve High Quality of Monitoring**

Shao-Jie Tang (Illinois Institute of Technology, USA); Jing Yuan (University of Illinois at Chicago, USA)

**Quick construction of data-driven models of the short-term behavior of wireless links**

Ankur Kamthe (University of California, Merced, USA); Miguel A. Carreira-Perpinan (University of California, Merced, USA); Alberto Eduardo Cerpa (University of California, Merced, USA)

**MC - Content based networking**
Room: Istanbul

Chair: Matteo Varvello (Bell Labs, Alcatel-Lucent, USA)

**A Network Calculus for Cache Networks**

Elisha Rosensweig (UMass Amherst, Israel); Jim Kurose (University of Massachusetts at Amherst, USA)

**AlphaRoute: A Name Based Routing Scheme for Information Centric Networks**

Reaz Ahmed (Bangladesh University of Engineering and Technology, Bangladesh); Md. Faizul Bari (University of Waterloo, Canada); Shihabur Rahman Chowdhury (University of Waterloo, Canada); Md. Rabbani (University of Waterloo, Canada); Raouf Boutaba (University of Waterloo, Canada); Bertrand Mathieu (Orange Labs, France)

**NameFilter: Achieving fast name lookup with low memory cost via applying two-stage Bloom filters**

Yi Wang (Tsinghua University, P.R. China); Tian Pan (Tsinghua University, P.R. China); Zhian Mi (Tsinghua University, P.R. China); Huichen Dai (Tsinghua University, P.R. China); Xiaoyu Guo (Tsinghua University, P.R. China); Ting Zhang (Tsinghua University, P.R. China); Bin Liu (Tsinghua University, P.R. China); Qunfeng Dong (University of Science and Technology of China, P.R. China)
Cooperative Caching through Routing Control in Information-Centric Networks

Sumanta Saha (Aalto University, Finland); Andrey Lukyanenko (Aalto University, Finland); Antti Ylä-Jääski (Aalto University, Finland)

MC - Cognitive radio networks

Room: Roma

Chair: Mehmet Can Vuran (University of Nebraska-Lincoln, USA)

Utility-Based Cooperative Spectrum Sensing Scheduling in Cognitive Radio Networks

Hongjuan Li (The George Washington University, USA); Xiuzhen Cheng (George Washington Univ, USA); Keqiu Li (Dalian University of Technology, P.R. China); Xiaoshuang Xing (Beijing Jiao Tong University, P.R. China); Tao Jing (Beijing Jiaotong University, P.R. China)

Multicast Throughput Stability Analysis for Cognitive Cooperative Random Access
Clement Kam (Naval Research Laboratory, USA); Sastry Kompella (Naval Research Laboratory, USA); Gam Nguyen (Naval Research Laboratory, USA); Jeffrey Wieselthier (Wieselthier Research, USA); Anthony Ephremides (University of Maryland at College Park, USA)

**Cooperative Relay Selection in Cognitive Radio Networks**

Tao Jing (Beijing Jiaotong University, P.R. China); Shixiang Zhu (Beijing Jiaotong University, P.R. China); Hongjuan Li (The George Washington University, USA); Xiuzhen Cheng (George Washington Univ, USA); Yan Huo (Beijing Jiaotong University, P.R. China)

**TAMES: A Truthful Auction Mechanism for Heterogeneous Spectrum Allocation**

Yanjiao Chen (Hong Kong University of Science and Technology, Hong Kong); Jin Zhang (Hong Kong University of Science and Technology, P.R. China); Kaishun Wu (HKUST, Hong Kong); Qian Zhang (Hong Kong University of Science and Technology, Hong Kong)

**MC - Social networks**

Room: Copenhagen

Chair: Baochun Li (University of Toronto, Canada)
**Video Sharing Propagation in Social Networks: Measurement, Modeling, and Analysis**

Xu Cheng (BroadbandTV Corp, Canada); Haitao Li (Simon Fraser University, Canada); Jiangchuan Liu (Simon Fraser University, Canada)

**Video Requests from Online Social Networks: Characterization, Analysis and Generation**

Haitao Li (Simon Fraser University, Canada); Haiyang Wang (Simon Fraser University, Canada); Jiangchuan Liu (Simon Fraser University, Canada); Ke Xu (Tsinghua University, P.R. China)

**An Adaptive Approximation Algorithm for Community Detection in Dynamic Scale-free Networks**

Thang N. Dinh (University of Florida, USA); Nam P. Nguyen (University of Florida, USA); My T. Thai (University of Florida, USA)

**Effect of Constraints on Superpeer Topologies**

Joydeep Chandra (Indian Institute of Technology, India); Bivas Mitra (CREA, CNRS/Ecole Polytechnique, France); Niloy Ganguly (Indian Institute of Technology Kharagpur, India)

**MC - Network Monitoring**
Room: Dublino

Chair: Marco Mellia (Politecnico di Torino, Italy)

**ROOM: Rule Organized Optimal Matching for Fine-Grained Traffic Identification**

Hao Li (Xi'an Jiaotong University, P.R. China); Chengchen Hu (Xi'an Jiaotong University, P.R. China)

**Toward Composable Network Traffic Measurement**

Andrea Di Pietro (University of Pisa, Italy); Felipe Huici (NEC Europe Ltd., Germany); Nicola Bonelli (CNIT, Italy); Brian Trammell (ETH Zurich, Switzerland); Maurizio Dusi (NEC Laboratories Europe, Germany); Petr Kastovsky (INVEA TECH, Germany); Tristan Groleat (Telecom Bretagne, France); Sandrine Vaton (Telecom Bretagne, France)

**Understanding Geolocation Accuracy using Network Geometry**

Brian Eriksson (Technicolor, USA); Mark Crovella (Boston University, USA)

**A Technique for Counting DNSSEC Validators**
Kensuke Fukuda (National Institute of Informatics, Japan); Shinta Sato (Japan Registry Services Co., Ltd., Japan); Takeshi Mitamura (Japan Registry Services Co., Ltd, Japan)

MC - Vehicular networks

Room: Lisbona

Chair: Yunhuai Liu (Third Research Institute of Ministry of Public Security, P.R. China)

A-VIP: Anonymous Verification and Inference of Positions in Vehicular Networks

Francesco Malandrino (Politecnico di Torino, Italy); Claudio E. Casetti (Politecnico di Torino, Italy); Carla-Fabiana Chiasserini (Politecnico di Torino, Italy); Marco Fiore (INSA Lyon, France); Roberto S. Yokoyama (Universidade de São Paulo, Brazil); Carlo Borgiattino (Politecnico di Torino, Italy)

How Shadowing Hurts Vehicular Communications and How Dynamic Beaconing Can Help

Christoph Sommer (University of Innsbruck, Austria); Stefan Joerer (University of Innsbruck, Austria); Michele Segata (University of Innsbruck, Austria); Ozan Tonguz (Carnegie Mellon University, USA); Renato Lo Cigno (University of Trento, Italy); Falko Dressler (University of
Approaching Reliable Realtime Communications? A Novel System Design and Implementation for Roadway Safety Oriented Vehicular Communications

Kai Xing (University of Science and Technology of China, P.R. China); Tianbo Gu (University of Science and Technology of China, P.R. China); Zhengang Zhao (University of Science and Technology of China, P.R. China); Lei Shi (Hefei University of Technology, P.R. China); Yunhao Liu (Tsinghua University, P.R. China); Pengfei Hu (University of Science and Technology of China, P.R. China); Yuepeng Wang (University of Science and Technology of China, P.R. China); Yi Liang (University of Science and Technology of China, P.R. China); Shuo Zhang (University Of Science And Technology Of China, P.R. China); Yang Wang (University of Science and Technology of China, P.R. China); Liusheng Huang (University of Science and Technology of China, P.R. China)

Achieving Air-Ground Communications in 802.11 Networks with Three-Dimensional Aerial Mobility

Evsen Yanmaz (University of Klagenfurt, Austria); Robert Kuschnig (Klagenfurt University, Austria); Christian Bettstetter (University of Klagenfurt, Austria)

10:30-11:00 coffee break

11:00-12:30
MC - Cloud computing and networks 2

Room: Sala 500

Chair: Jia Liu (Ohio State University, USA)

Joint Design of Dynamic Scheduling and Pricing in Wireless Cloud Computing

Shaolei Ren (Florida International University, USA); Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA)

Energy-efficient Scheduling Policy for Collaborative Execution in Mobile Cloud Computing

Weiwen Zhang (Nanyang Technological University, Singapore); Yonggang Wen (Nanyang Technological University, Singapore); Dapeng Oliver Wu (University of Florida, USA)

eTime: Energy-Efficient Transmission between Cloud and Mobile Devices

Peng Shu (Huazhong University of Science and Technology, P.R. China); Fangming Liu (Huazhong University of Science and Technology, P.R. China); Hai Jin (Huazhong University of Science and Technology, P.R. China); Min Chen (Huazhong University of Science and Technology, P.R. China); Feng Wen (Huazhong University of Science and Technology, P.R. China); Yupeng Qu (Huazhong University of Science and Technology, P.R. China); Bo Li (Hong Kong University of Science and Technology, Hong Kong)
MC - Wireless networks 2

Room: Londra

Chair: Cong Wang (City University of Hong Kong, Hong Kong)

**DARA: Estimating the Behavior of Data Rate Adaptation Algorithms in WLAN Hotspots**

Sven Wiethölter (Technical University of Berlin, Germany); Andreas Ruttor (KI / TU Berlin, Germany); Uwe Bergemann (TKN / TU Berlin, Germany); Manfred Opper (KI / TU Berlin, Germany); Adam M Wolisz (Technical University of Berlin, Germany)

**Fairness and Efficiency Tradeoffs for User Cooperation in Distributed Wireless Networks**

Yong Xiao (Trinity College Dublin, Ireland); Jianwei Huang (The Chinese University of Hong Kong, Hong Kong); Chau Yuen (Singapore University of Technology and Design, Singapore); Luiz A. DaSilva (Virginia Polytechnic Institute and State University, Ireland)

**A Quantitative Framework for guaranteeing QoE of Video delivery over Wireless**
Hemant Kowshik (IBM India Research Lab, India); Partha Dutta (IBM, India); Malolan Chetlur (IBM Research - India, India); Shivkumar Kalyanaraman (IBM Research - India, Bangalore, India)

Differential Estimation in Dynamic RFID Systems

Qingjun Xiao (Georgia State University, USA); Bin Xiao (The Hong Kong Polytechnic University, Hong Kong); Shigang Chen (University of Florida, USA)

MC - Sensor networks 2

Room: Madrid

Chair: Yi Qian (University of Nebraska–Lincoln, USA)

Effective Epidemic Control and Source Tracing Through Mobile Social Sensing over WBANs

Zhaoyang Zhang (University of Massachusetts, Dartmouth, USA); Honggang Wang (University of Massachusetts, Dartmouth, USA); Xiaodong Lin (University of Ontario Institute of
Medial Axis Construction and Applications in 3D Wireless Sensor Networks

Su Xia (University of Louisiana at Lafayette, USA); Ning Ding (University of Louisiana at Lafayette, USA); Miao Jin (University of Louisiana at Lafayette, USA); Hongyi Wu (University of Louisiana at Lafayette, USA); Yang Yang (University of Louisiana at Lafayette, USA)

Efficient Data Gathering using Compressed Sparse Functions

Liwen Xu (Tsinghua University, P.R. China); Xiao Qi (Tsing Hua University, P.R. China); Thomas Moscibroda (Microsoft Research, USA); Amy Yuexuan Wang (Tsinghua University, P.R. China)

R3: Optimizing Relocatable Code for Efficient Reprogramming in Networked Embedded Systems

Wei Dong (Zhejiang University, P.R. China); Biyuan Mo (Zhejiang University, P.R. China); Huang Chao (Zhejiang University, P.R. China); Yunhao Liu (Tsinghua University, P.R. China); Chun Chen (Zhejiang University, P.R. China)

MC - Content distribution

Room: Istanbul
Experimental Evaluation of Content Distribution with NDN and HTTP

Haowei Yuan (Washington University in St. Louis, USA); Patrick Crowley (Washington University in St. Louis, USA)

Dynamic In-Network Caching for Energy Efficient Content Delivery

Jaime Llorca (Bell Labs, Alcatel-Lucent, USA); Antonia Tulino (Bell Labs, USA); Kyle C Guan (Bell Labs, Alcatel-Lucent, USA); Jairo O Esteban (Bell Labs, Lucent Technologies, USA); Matteo Varvello (Bell Labs, Alcatel-Lucent, USA); Nakjung Choi (Bell-Labs, Alcatel-Lucent, Korea); Dan Kilper (Bell Laboratories, USA)

Effectively Minimizing Redundant Internet Streaming Traffic to iOS Devices

Yao Liu (George Mason University, USA); Fei Li (George Mason University, USA); Lei Guo (The Ohio State University, USA); Bo Shen (Vuclip. Inc, USA); Songqing Chen (George Mason University, USA)

Content-Aware Network Data Compression Using Joint Memorization and Clustering

Mohsen Sardari (Georgia Institute of Technology, USA); Ahmad Beirami (Georgia Institute of Technology, USA)
Criticality of Large Delay Tolerant Networks via Directed Continuum Percolation in Space-Time

Esa Hyytiä (Aalto University, Finland); Joerg Ott (Aalto University, Finland)

On the Insensitivity of User Distribution in Multicell Networks under General Mobility and Session Patterns

Wei Bao (University of Toronto, Canada); Ben Liang (University of Toronto, Canada)

Call Admission Control for Real-time Applications in Wireless Network
Siddhant Agrawal (IIT Bombay, India); Prasanna Chaporkar (IIT Bombay, India); Rajan Udwani (IITB, India)

*Distributed Admission Control without Knowledge of the Capacity Region*

Juan Jose Jaramillo (Universidad EAFIT, Colombia); Lei Ying (Arizona State University, USA)

**MC - Security, privacy, authentication 1**

Room: Copenhagen

Chair: Loukas Lazos (University of Arizona, USA)

*Is Link Signature Dependable for Wireless Security?*

Xiaofan He (North Carolina State University, USA); Huaiyu Dai (NC State University, USA); Wenbo Shen (North Carolina State University, USA); Peng Ning (North Carolina State University, USA)
Data Confidentiality and Availability via Secret Sharing and Node Mobility in UWSN

Roberto Di Pietro (Università di Roma Tre, Italy); Stefano Guarino (University of Roma Tre, Italy)

PASSAGES: Preserving Anonymity of Sources and Sinks against Global Eavesdroppers

Hyungbae Park (University of Missouri-Kansas City, USA); Sejun Song (Texas A&M University, college station, USA); Baek-Young Choi (University of Missouri - Kansas City, USA); Chin-Tser Huang (University of South Carolina, USA)

Video Source Identification in Lossy Wireless Networks

Shaxun Chen (University of California, Davis, USA); Amit Pande (University of California Davis, CA, USA); Kai Zeng (University of Michigan - Dearborn, USA); Prasant Mohapatra (University of California, Davis, USA)

MC - Measurements

Room: Dublino

Chair: Wenye Wang (NC State University, USA)
Mini-Conference

MC - Network coding

Room: Lisboa

Chair: Kai Xing (University of Science and Technology of China, P.R. China)

Wireless Network Coding: Deciding When to Flip the Switch

Ahmed Fathy Atya (University of California, Riverside, USA); Ioannis Broustis (AT&T Labs Research, USA); Shailendra Singh (University Of California, Riverside, USA); Dimitris Syrivelis (University of Thessaly, Greece); Srikanth V. Krishnamurthy (University of California, Riverside, USA); Tom La Porta (Penn State University, USA)

Rateless Resilient Network Coding Against Byzantine Adversaries

Wentao Huang (California Institute of Technology, USA); Tracey Ho (California Institute of Technology, USA); Hongyi Yao (California Institute of Technology, USA); Sidharth Jaggi (Chinese University of Hong Kong, Hong Kong)

Untraceability of Mobile Devices in Wireless Mesh Networks using Linear Network Coding

Jin Wang (Soochow University, P.R. China); Kejie Lu (University of Puerto Rico at Mayaguez, Puerto Rico); Jianping Wang (City University of Hong Kong, Hong Kong); Chunming Qiao (State University of New York at Buffalo, USA)
Coding Opportunity Aware Backbone Metrics for Broadcast in Wireless Network

Shuai Wang (University of Minnesota, Twin Cities, P.R. China); Guang Tan (SIAT, Chinese Academy of Sciences, P.R. China); Yunhuai Liu (Third Research Institute of Ministry of Public Security, P.R. China); Hongbo Jiang (Huazhong University of Science and Technology, P.R. China); Tian He (University of Minnesota, USA)

12:30-14:00 lunch break

14:00-15:30

MC - Data center networking 1

Room: Sala 500

Chair: Florin Ciucu (T-Labs / TU Berlin, Germany)
Data Center Energy Cost Minimization: a Spatio-Temporal Scheduling Approach

Jianying Luo (Stanford University, USA); Lei Rao (General Motors Research Lab, USA); Xue Liu (McGill University, Canada)

Coordinated Resource Provisioning and Maintenance Scheduling in Cloud Data Centers

Zeyu Zheng (City University of Hong Kong, Hong Kong); Minming Li (City University of Hong Kong, Hong Kong); Xun Xiao (City University of Hong Kong, Hong Kong); Jianping Wang (City University of Hong Kong, Hong Kong)

Multicast Fat-tree Data Center Networks with Bounded Link Oversubscription

Zhiyang Guo (Stony Brook University, USA); Yuanyuan Yang (Stony Brook University, USA)

Almost Optimal Virtual Machine Placement for Traffic Intense Data Centers

Rami Cohen (IBM Research - Haifa, Israel); Liane Lewin-Eytan (IBM Haifa Research Lab, Israel); Joseph (Seffi) Naor (Technion, Israel); Danny Raz (Technion, Israel)

MC - Wireless networks 3

Room: Londra
Chair: Joerg C. Widmer (Institute IMDEA Networks, Spain)

**IPAD: An Incentive and Privacy-Aware Data Dissemination Scheme in Opportunistic Networks**

Rongxing Lu (University of Waterloo, Canada); Xiaodong Lin (University of Ontario Institute of Technology, Canada); Zhiguo Shi (Zhejiang University, P.R. China); Bin Cao (Harbin Institute of Technology Shenzhen Graduate School, P.R. China); Sherman Shen (University of Waterloo, Canada)

**Beneficial Cooperation Ratio in Multi-hop Wireless Ad Hoc Networks**

Yong Zhou (University of Waterloo, Canada); Weihua Zhuang (University of Waterloo, Canada)

**Low-Latency Multi-flow Broadcasts in Fading Wireless Networks**

Chenxi Qiu (Clemson University, USA); Lei Yu (Clemson University, USA); Haiying Shen (Clemson University, USA); Sohraab Soltani (University of Texas at Tyler, USA)

**Beyond Interference Avoidance: Distributed Sub-network Scheduling in Wireless Networks with Local Views**

Pedro E Santacruz (Rice University, USA); Vaneet Aggarwal (AT&T Labs - Research, USA)
Ashutosh Sabharwal (Rice University, USA)

**MC - Sensor networks 3**

Room: Madrid

Chair: Falko Dressler (University of Innsbruck, Austria)

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*Cut Graph Based Information Storage and Retrieval in 3D Sensor Networks with General Topology*

Yang Yang (University of Louisiana at Lafayette, USA); Miao Jin (University of Louisiana at Lafayette, USA); Yao Zhao (University of Louisiana at Lafayette, USA); Hongyi Wu (University of Louisiana at Lafayette, USA)

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*Barrier Coverage in Wireless Sensor Networks: From Lined-based to Curve-based Deployment*

Shibo He (Arizona State University, USA); Xiaowen Gong (Arizona State University, USA); Junshan Zhang (Arizona State University, USA); Jiming Chen (Zhejiang University, P.R. China); Youxian Sun (Zhejiang University, P.R. China)
**Reduction algorithm for simplicial complexes**

Anais Vergne (TELECOM ParisTech, France); Laurent Decreusefond (Telecom ParisTech, France); Philippe Martins (Telecom ParisTech, France)

**Triggercast: Enabling Wireless Collisions Constructive**

Yin Wang (University of Tsinghua, P.R. China); Yuan He (Tsinghua University, P.R. China); Dapeng Cheng (Shandong Institute of Business & Technology, P.R. China); Yunhao Liu (Tsinghua University, P.R. China); Xiang-Yang Li (Illinois Institute of Technology, USA)

**MC - Virtualization and cloud networks**

Room: Istanbul

Chair: Yonggang Wen (Nanyang Technological University, Singapore)

**Exact Cooperative Regenerating Codes with Minimum-Repair-Bandwidth for Distributed Storage**
Anyu Wang (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, P.R. China); Zhifang Zhang (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, P.R. China)

Move My Data to the Cloud: an Online Cost-Minimizing Approach

Linquan Zhang (The University of Hong Kong, Hong Kong); Chuan Wu (The University of Hong Kong, Hong Kong); Zongpeng Li (University of Calgary, Canada); Chuanxiong Guo (Microsoft Research Asia, P.R. China); Minghua Chen (The Chinese University of Hong Kong, P.R. China); Francis C.M. Lau (The University of Hong Kong, Hong Kong)

Resolve The Virtual Network Embedding Problem: A Column Generation Approach

Qian Hu (Georgia State University, USA); Yang Wang (Georgia State University, USA); Xiaojun Cao (Georgia State University, USA)

Adversarial Topology Discovery in Network Virtualization Environments - A Threat for ISPs?

Yvonne-Anne Pignolet (ABB Corporate Research, Dättwil, Switzerland); Stefan Schmid (T-Labs & TU Berlin, Germany); Gilles Tredan (LAAS-CNRS, France)

MC - Localization
Adaptive Device-Free Passive Localization Coping with Dynamic Target Speed

Xiuyuan Zheng (Stevens Institute of Technology, USA); Yu Gan (Stevens Institute of Technology, USA); Jie Yang (Oakland University, USA); Yingying Chen (Stevens Institute of Technology, USA)

Footprints Elicit the Truth: Improving Global Positioning Accuracy via Local Mobility

Chenshu Wu (Tsinghua University, P.R. China); Zheng Yang (Tsinghua University, P.R. China); Yiyang Zhao (Tsinghua University, P.R. China); Yunhao Liu (Tsinghua University, P.R. China)

Towards Accurate Acoustic Localization on a Smartphone

Kaikai Liu (University of Florida, USA); Xinxin Liu (University of Florida, USA); Lulu Xie (University of Florida, USA); Xiaolin Li (University of Florida, USA)

EV-Human: Human Localization via Visual Estimation of Body Electronic Interference

Xinfeng Li (The Ohio State University, USA); Jin Teng (The Ohio State University, USA); Qiang
Zhai (Ohio State University, USA); Junda Zhu (OSU, USA); Dong Xuan (The Ohio State University, USA); Yuan F. Zheng (Ohio State University, USA); Wei Zhao (University of Macau, P.R. China)

**FREDI: Robust RSS-based Ranging with Multipath Effect and Radio Interference**

Yu Zhao (CHINA, P.R. China); Yunhuai Liu (Third Research Institute of Ministry of Public Security, P.R. China); Tian He (University of Minnesota, USA); Athanasios V. Vasilakos (National Technical University of Athens, Greece); Chuanping Hu (Third Research Institute of Ministry of Public Security, USA)

**MC - Security, privacy, authentication 2**

Room: Copenhagen

Chair: Ming Li (Utah State University, USA)

**Disambiguation of Residential Wired and Wireless Access in a Forensic Setting**

Sookhyun Yang (University of Massachusetts Amherst, USA); Jim Kurose (University of Massachusetts at Amherst, USA); Brian Neil Levine (University of Massachusetts Amherst, USA)
**OpenSesame: Unlocking Smart Phone through Handshaking Biometrics**

Yi Guo (Hongkong University of Science and Technology, P.R. China); Lei Yang (Xi’an Jiaotong University, P.R. China); Xuan Ding (Tsinghua University, P.R. China); Jinsong Han (School of Electronic and Information Engineering, Xi’an Jiaotong University, Hong Kong); Yunhao Liu (Tsinghua University, P.R. China)

**Fast and Secure Rendezvous Protocols for Mitigating Control Channel DoS Attacks**

Mohammad J Abdel Rahman (University of Arizona, USA); Hanif Rahbari (University of Arizona, USA); Marwan Krunz (University of Arizona, USA); Philippe Nain (INRIA, Sophia Antipolis, France)

**Near Field Authentication for Smart Devices**

Lingjun Li (Arizona State University, USA); Xinxin Zhao (Arizona State University, USA); Guoliang Xue (Arizona State University, USA)

**MC - Optical networks**

Room: Dublino

Chair: Greg Kuperman (MIT, USA)
On Achieving All-Optical Failure Restoration via Monitoring Trails

János Tapolcai (Budapest University of Technology and Economics, Hungary); Pin-Han Ho (University of Waterloo, Canada); Péter Babarczi (Budapest University of Technology and Economics, Hungary); Lajos Rónyai (Budapest University of Technology and Economics (BME), Hungary)

On Routing and Spectrum Allocation in Spectrum-sliced Optical Networks

Shahrzad Shirazipourazad (Arizona State University, USA); Chenyang Zhou (Arizona State University, USA); Zahra Derakhshandeh (Arizona State University, USA); Arunabha Sen (ASU, USA)

Multipath De-fragmentation: Achieving Better Spectral Efficiency in Elastic Optical Path Networks

Xiaomin Chen (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany); Admela Jukan (Technische Universität Carolo-Wilhelmina zu Braunschweig, Germany); Ashwin A Gumaste (Indian Institute of Technology, Bombay, India)

A Predictive and Incremental Grooming Scheme for Time-varying Traffic in WDM Networks

Zilong Ye (SUNY-Buffalo, USA); Xiaojun Cao (Georgia State University, USA); Xiujiao Gao (University at Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA)
MC - Cellular networks

Room: Lisboa

Chair: Chih-ping Li (MIT, USA)

DataSpotting: Exploiting Naturally Clustered Mobile Devices to Offload Cellular Traffic

Xuan Bao (Duke University, USA); Yin Lin (Duke University, USA); Uichin Lee (KAIST, Korea); Ivica Rimac (Bell Labs, Alcatel-Lucent, USA); Romit Roy Choudhury (Duke University, USA)

Proactive Call Drop Avoidance in UMTS Networks

Shan Zhou (Iowa state University, USA); Jie Yang (Oakland University, USA); Dahai Xu (AT&T Labs - Research, USA); Guangzhi Li (AT&T Labs - Research, USA); Yu Jin (AT&T Labs Research, USA); Zihui Ge (AT&T Labs - Research, USA); Mario Kosseifi (AT&T Network Services, USA); Robert Doverspike (AT&T Labs - Research, USA); Yingying Chen (Stevens Institute of Technology, USA); Lei Ying (Arizona State University, USA)

A Bandwidth Trading Marketplace for Mobile Data Offloading
Stefano Paris (University of Bergamo, Italy); Fabio Martignon (Université Paris-Sud, France); Ilario Filippini (Politecnico di Milano, Italy); Lin Chen (The University of Paris-Sud 11, France)

**AMUSE: Empowering Users for Cost-Aware Offloading with Throughput-Delay Tradeoffs**

Youngbin Im (Seoul National University, Korea); Carlee Joe-Wong (Princeton University, USA); Sangtae Ha (Princeton University, USA); Soumya Sen (Princeton University, USA); Taekyoung Kwon (Seoul National University, Korea); Mung Chiang (Princeton University, USA)

**Cutting without Pain: Mitigating 3G Radio Tail Effect on Smartphones**

Xue Guangtao (Shanghai Jiao Tong University, P.R. China); Fei Yu (Shanghai Jiao Tong University, P.R. China); Hongzi Zhu (Shanghai Jiao Tong University, P.R. China); Zhenxian Hu (Shanghai Jiao Tong University, P.R. China); Minglu Li (Shanghai Jiao Tong University, P.R. China); Gong Zhang (Huawei Research, P.R. China)

15:30-16:00 coffee break

16:00-17:30

MC - Data center networking 2
Room: Sala 500

Chair: Fangming Liu (Huazhong University of Science and Technology, P.R. China)

Schedule First, Manage Later: Network-aware Load Balancing

Amir Nahir (Technion, Israel); Ariel Orda (Technion, Israel); Danny Raz (Technion, Israel)

Characterizing the Impact of the Workload on the Value of Dynamic Resizing in Data Centers

Kai Wang (Chinese Academy of Sciences, P.R. China); Minghong Lin (California Institute of Technology, USA); Florin Ciucu (T-Labs / TU Berlin, Germany); Adam C Wierman (California Institute of Technology, USA); Chuang Lin (Tsinghua University, P.R. China)
**The Answer Is Blowing in the Wind: Analysis of Powering Internet Data Centers with Wind Energy**

Yan Gao (Accenture Technology Labs, P.R. China); Zheng Zeng (University of Illinois at Urbana-Champaign, USA); Xue Liu (McGill University, Canada); P. R. Kumar (University of Illinois at Urbana-Champaign, USA)

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Room: Londra

Chair: Tian Lan (George Washington University, USA)

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**Defeating Heterogeneity in Wireless Multicast Networks**
A Spectrum-Sharing Rewarding Framework for Co-channel Hybrid Access Femtocell Networks

Quality of Service Satisfaction Games for Spectrum Sharing

Polynomial-complexity, Low-delay Scheduling for SCFDMA-based Wireless Uplink
When Simplicity Meets Optimality: Efficient Transmission Power Control with Stochastic Energy Harvesting

Qingsi Wang (University of Michigan, USA); Mingyan Liu (University of Michigan, USA)
Prototyping Energy Harvesting Active Networked Tags (EnHANTs)

Maria Gorlatova (Columbia University, USA); Robert Margolies (Columbia University, USA); John Sarik (Columbia University, USA); Gerald Stanje (Columbia University, USA); Jianxun Zhu (Columbia University, USA); Baradwaj Vigraham (Columbia University, USA); Marcin Szczodrak (Columbia University, USA); Luca Carloni (Columbia University, USA); Peter Kinget (Columbia University, USA); Ioannis Kymissis (Columbia University, USA); Gil Zussman (Columbia University, USA)

Impact of Battery Degradation on Optimal Management Policies of Harvesting-Based Wireless Sensor Devices

Nicolò Michelusi (University of Padova, Italy); Leonardo Badia (Università degli Studi di Padova, Italy); Ruggero Carli (University of Padova, Italy); Luca Corradini (University of Padova, Italy); Michele Zorzi (University of Padova, Italy)
Bidirectional Energy Trading for Residential Load Scheduling and Electric Vehicles

Byung-Gook Kim (Yonsei University, Korea); Shaolei Ren (Florida International University, USA); Mihaela van der Schaar (University of California, Los Angeles (UCLA), USA); Jang-Won Lee (Yonsei University, Korea)

MC - Router and switch design

Room: Istanbul

Chair: Emilio Leonardi (Politecnico di Torino, Italy)

Palette: Distributing Tables in Software-Defined Networks

Yossi Kanizo (Technion, Israel); David Hay (The Hebrew University of Jerusalem, Israel); Isaac Keslassy (Technion, Israel)
NSFIB Construction & Aggregation with Next Hop of Strict Partial Order

Qing Li (Tsinghua University, P.R. China); Mingwei Xu (Tsinghua University, P.R. China); Meng Chen (Tsinghua University, P.R. China)

Modular Architectures of Optical Multi-Stage Switching Networks

Dario G. Garao (Politecnico di Milano, Italy); Guido Maier (Politecnico di Milano, Italy); Achille Pattavina (Politecnico di Milano, Italy)

MC - Security, privacy, authentication 3

Room: Roma
Chair: Haojin Zhu (Shanghai Jiao Tong University, P.R. China)

An Upper Bound on the Convergence Time for Quantized Consensus

Shang Shang (Princeton University, USA); Paul Cuff (Princeton University, USA); Pan Hui (Deutsche Telekom Laboratories, Germany); Sanjeev Kulkarni (Princeton University, USA)

Verifiable Private Multi-party Computation: Ranging and Ranking

Lan Zhang (Tsinghua University, P.R. China); Xiang-Yang Li (Illinois Institute of Technology, USA); Yunhao Liu (Tsinghua University, P.R. China)

Proof-carrying Cloud Computation: the Case of Convex Optimization
Zhen Xu (Illinois Institute of Technology, USA); Cong Wang (City University of Hong Kong, Hong Kong); Qian Wang (Wuhan University, P.R. China); Kui Ren (State University of New York at Buffalo, USA); Lingyu Wang (Concordia University, Canada)

_A Contribution to Analyzing and Enhancing Darknet Routing_

Thorsten Strufe (TU Darmstadt, Germany); Stefanie Roos (TU Darmstadt, Germany)

_MC - Applications of game theory_

Room: Copenhagen

Chair: Sastry Kompella (Naval Research Laboratory, USA)
SPECIAL: A Strategy-Proof and Efficient Multi-Channel Auction Mechanism for Wireless Networks

Tianrong Zhang (University of North Carolina at Chapel Hill, USA); Fan Wu (Shanghai Jiao Tong University, P.R. China); Chunming Qiao (State University of New York at Buffalo, USA)

Load Balance vs Energy Efficiency in Traffic Engineering: A Game Theoretical Perspective

Yangming Zhao (University of Electronic Science and Technology of China, P.R. China); Sheng Wang (University of Electronic Science and Technology of China, P.R. China); Shizhong Xu (University of electronic science and Technology, P.R. China); Xiong Wang (University of Electronic Science and Technology, P.R. China); Xiujiao Gao (University at Buffalo, USA); Chunming Qiao (State University of New York at Buffalo, USA)

Evolutionary Coalitional Games for Random Access Control
Xin Luo (Supelec, France); Hamidou Tembine (Supelec, France)

Optimal Pricing in Stochastic Scalable Video Coding Multicasting System

Chih-Yu Wang (National Taiwan University, Taiwan); Yan Chen (University of Maryland, College Park, USA); Hung-Yu Wei (National Taiwan University, Taiwan); K. J. Ray Liu (University of Maryland, USA)