

ACM S3 2010 Workshop Program

Chicago, Illinois, USA,

September 20, 2010

Meet and Greet, Opening Remarks

8:15-8:30

Theory Session

8:30-10:00

Chairs: William Weiliang Li (CUHK) and Aziz Adel (EPFL)

Optimal Forwarding Strategies For The Relay Channel Under Average Delay Constraints

Daniel Sadoc Menasche (UMass Amherst), Dennis Goeckel (UMass Amherst), Don Towsley (UMass Amherst)

From Centralized to Distributed Sensor Localization

Amin Karbasi (EPFL)

Is Oversensitive Spectrum Sensing the Door Opener for Initial Cognitive Radio Deployments?

Daniel Willkomm (TU Berlin), Adam Wolisz (TU Berlin)

SoftCast: Clean-slate Scalable Wireless Video

Szymon Jakubczak (MIT), Dina Katabi (MIT)

Capacity of Byzantine Agreement: Summary of Recent Results

Guanfeng Liang (UIUC), Nitin Vaidya (UIUC)

Analyzing the Performance of Greedy Maximal Scheduling via Local Pooling and Graph Theory

Berk Birand (Columbia University), Maria Chudnovsky (Columbia University), Bernard Ries (University of Warwick), Paul Seymour (Princeton University), Gil Zussman, Yori Zwols (Columbia University)

Break

10:00-10:30

Panel

10:30-12:00

Title: *The importance of real-world validation for computer science and engineering research.*

Chairs: Maria Kazandjieva (Stanford University) and Veljko Pejovic (UCSB)

Panelists:

Earl Oliver (University of Waterloo)

Ben Firner (Rutgers University)

Giacomo Bernardi (University of Edinburgh)

Simon Heimlicher (ETH Zurich)

Mike Wittie (UC Santa Barbara)

Demo Session + Lunch

12:00-1:30

Chairs: Ehsan Aryafar (Rice University) and Harald Schiöberg (TU Berlin)

Visible Light Communication on the Wireless Open-Access Research Platform

Cen Liu, Edward Knightly (Rice University)

Opportunistic Video Streaming in WiFi-based Hybrid Mobile Networks

Hayoung Yoon (Gwangju Institute of Science and Technology), JongWon Kim (Gwangju Institute of Science and Technology), Robert Hsieh (Institute for Infocomm Research, Singapore)

Message Delivery in Heterogeneous Disruption-Prone Networks

Marc Mendonca (UC Santa Cruz), Rao Naveed Bin Rais (INRIA), Thierry Turetletti (INRIA), Katia Obraczka (UC Santa Cruz)

TFA: A Large Scale Urban Mesh Network for Social and Network Research

Oscar Bejarano, Stanislav Mislovic, Ehsan Aryafar, and Edward W. Knightly (Rice University)
QuRiNet: A Wireless Testbed for Network and Ecological Research
Daniel Wu, Dhruv Gupta, Prasant Mohapatra (UC Davis)
WARPLab: A Flexible Framework for Rapid Physical Layer Design
Narendra Anand, Ehsan Aryafar, and Edward W. Knightly (Rice University)
A demonstration of a new TCP congestion control algorithm over LTE and other challenging networks
Jingyuan Wang, Jiangtao Wen, Jun Zhang, Yuxing Han (Tsinghua University)

Elevator Pitch Session

1:30-2:30

Chairs: Yi Wang (USC) and Ioana Rodhe (Uppsala University)

Presenters:

Daniel Menasche (UMass)
Scott Moeller (USC)
I-Hong Hou (UIUC)
Xia Zhou (UCSB)
Simon Heimlicher (ETH Zurich)
Wei Gao (PSU)
Guanfeng Liang (UIUC)
Ming Ouyang (Iowa State University)
John Whitbeck (UPMC Sorbonne)

Judges:

Professor Xiaoming Fu (University of Goettingen, Germany)
Henrik Lundgren (Researcher at Thomson Paris Research Center, France)

Systems Session

2:30-4:00

Chairs: Ionut Constandache (Duke University) and Anna-Kaisa Pietilainen (University of Paris)

Diversity in Smartphone Energy Consumption
Earl Oliver (University of Waterloo)

Critical Analysis of Encounter Traces
John Whitbeck (UPMC Sorbonne), Vania Conan (Thales Communications), Marcelo Dias de Amorim (UPMC Sorbonne)

A Correlation Attack Against User Mobility Privacy in a Large-Scale WLAN Network
Keren Tan (Dartmouth College), Guanhua Yany (Los Alamos National Laboratory), Jihwang Yeo (Dartmouth College), David Kotz (Dartmouth College)

PUMA: Policy-based Unified Management Architecture for Wireless Networking
Changbin Liu (University of Pennsylvania), Xiaozhou Li Shiv (University of Pennsylvania), Muthukumar Harjot Gil (University of Pennsylvania), Taher Saeed (University of Pennsylvania), Boon Thau Loo (University of Pennsylvania), Prithwish Basu (BBN Technologies)

Delivering Capacity for the Mobile Internet by Stitching Together Networks
Kok-Kiong Yap (Stanford University), Sachin Katti (Stanford University), Guru Parulkar (Stanford University), Nick McKeown (Stanford University)

Bologna: Block-Based 802.11 Transmission Recovery
Bo Han (University of Maryland), Francesco Gringoli (Universita` degli Studi di Brescia), Luca Cominardi (Universita` degli Studi di Brescia)

Break

4:00-4:30

Distinguished Speakers

4:30-6:00

Chairs: Fernando Ramos (University of Cambridge) and Nicholas D. Lane (Dartmouth College)

Kevin Fu (UMASS Amherst)

Sam Leffler (Google)

TBA

Closing Remarks