

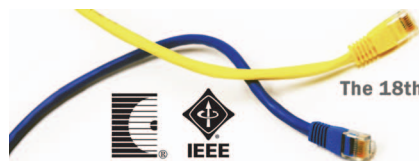
2011 18th IEEE Workshop on Local & Metropolitan Area Networks

(LANMAN 2011)

**Chapel Hill, North Carolina, USA
13 – 14 October 2011**



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IEEE LANMAN 2011

The 18th IEEE International Workshop on Local and Metropolitan Area Networks

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Thursday, October 13, 2011. 9:00 - 9:15am

KEYNOTE ADDRESS

Thursday, October 13, 2011. 9:15 - 10:25am

Putting the Cloud in the Palm of Your Hand

Victor Bahl (Microsoft Research, USA)

SESSION 1: PERFORMANCE OPTIMIZATION

Thursday, October 13, 2011. 10:40am - 12:20pm

Chair: Murat Yuksel, University of Nevada, Reno, USA

1. Performance Analysis of IEEE 802.11 Distributed Coordination Function in Presence of Hidden Stations under Non-saturated Conditions with Infinite Buffer in Radio-over-Fiber Wireless LANs

Amitangshu Pal (The University of North Carolina at Charlotte, USA)

Asis Nasipuri (The University of North Carolina at Charlotte, USA)

2. Learning A Pricing Strategy in Multi-Domain DWDM Networks

Pasquale Gurzi (Vrije Universiteit Brussel, Belgium)

Kris Steenhaut (Vrije Universiteit Brussel, Belgium)

Ann Nowe (Vrije Universiteit Brussel, Belgium)

Peter Vranckx (Vrije Universiteit Brussel, Belgium)

3. G-COPSS: A Content Centric Communication Infrastructure for Gaming Applications

Jiachen Chen (University of Goettingen, Germany)

Mayutan Arumaithurai (University of Goettingen, Germany)

Xiaoming Fu (University of Goettingen, Germany)

K. K. Ramakrishnan (AT&T Labs-Research, USA)

4. Impact of Traffic Burstiness on the Packet-scale Paradigm

Rebecca Lovewell (University of North Carolina at Chapel Hill, USA)

Jasleen Kaur (University of North Carolina at Chapel Hill, USA)

SESSION 2: OPTICAL NETWORKS

Thursday, October 13, 2011. 1:50 - 3:20pm

Chair: Kris Steenhaut, Vrije Universiteit Brussel, Belgium

5. Connection Rerouting in GRWA Networks

Ammar Metnani (Université de Montréal, Canada)

Brigitte Jaumard (Concordia University, Canada)

6. Flow Isolation in Optical Networks

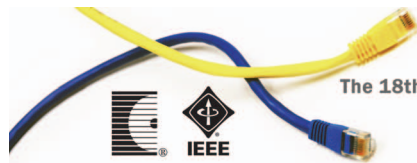
Hui Wang (North Carolina State University, USA)

George N. Rouskas (North Carolina State University, USA)

7. Scheduling Linear Networks for Space and Time efficiency

Arun Somani (Iowa State University, USA)

Dan Congreve (Iowa State University, USA)



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8. Transport Layer Performance of Hybrid Networks Combining Multiple EPONs and OBS

Matteo Fiorani (DII - University of Modena and Reggio Emilia, Italy)

Walter Cerroni (DEIS - University of Bologna, Italy)

Maurizio Casoni (DII - University of Modena and Reggio Emilia, Italy)

POSTER SESSION

Thursday, October 13, 2011. 3:20 - 3:45pm

9. NetBoxIT: Virtual Emulation Integrated Testbed for the Heterogeneous Networks Design (poster)

Giorgio Calarco (University of Modena and Reggio Emilia, Italy)

Maurizio Casoni (University of Modena and Reggio Emilia, Italy)

10. Experimental Performance Evaluation of a Virtual Software Router (poster)

Roberto Rojas-Cessa (New Jersey Institute of Technology, USA)

Khondaker M. Salehin (New Jersey Institute of Technology, USA)

Komlan Egoh (New Jersey Institute of Technology, USA)

11. Femtocell-assisted Location Authentication (poster)

Ravi Netravali (HP Laboratories, USA)

Jack Brassil (HP Laboratories, USA)

SESSION 3: WIRELESS I

Thursday, October 13, 2011. 3:45 - 5:00pm

Chair: Asis Nasipuri, University of North Carolina, Charlotte, USA

12. A Routing Approach to Jamming Mitigation in Wireless Multihop Networks

Umang Patel (QualComm Inc., USA)

Trisha Biswas (North Carolina State University, USA)

Rudra Dutta (North Carolina State University, USA)

13. Forthroid on Android: A QR-code Based Information Access System for Smart Phones

Tasos Alexandridis (University of Crete and FORTH, Greece)

Paulos Charonyktakis (University of Crete and FORTH, Greece)

Antonis Makrogiannakis (University of Crete and FORTH, Greece)

Artemis Papakonstantinou (University of Crete and FORTH, Greece)

Maria Papadopoulou (University of Crete and FORTH, Greece)

14. Evaluation of Constrained Application Protocol for Wireless Sensor Networks

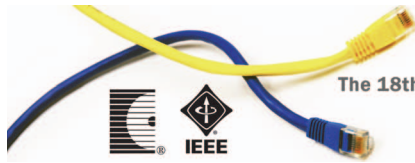
Walter Colitti (Vrije Universiteit Brussel, Belgium)

Kris Steenhaut (Vrije Universiteit Brussel, Belgium)

Niccolo De Caro (Vrije Universiteit Brussel, Belgium)

Virgil Dobrota (Technical University of Cluj-Napoca, Romania)

Bogdan Buta (Technical University of Cluj-Napoca, Romania)



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SESSION 4: MANAGEMENT, DESIGN, AND ROUTING

Friday, October 14, 2011. 9:00 - 11:00am

Chair: Arata Koike, NTT, Japan

15. Software Defined Networking: Meeting Carrier Grade Requirements (invited paper)

Dimitri Staessens (Ghent University - IBBT, Belgium)
Sachin Sharma (Ghent University - IBBT, Belgium)
Didier Colle (Ghent University - IBBT, Belgium)
Mario Pickavet (Ghent University - IBBT, Belgium)
Piet Demeester (Ghent University - IBBT, Belgium)

16. Segment p-Cycle Design with Full Node Protection in WDM Mesh Networks

Brigitte Jaumard (Concordia University, Canada)
Honghui Li (Concordia University, Canada)

17. A Congestion-Aware Rerouting Scheme in RPR Networks

Ching-Fang Hsu (National Cheng Kung University, Taiwan)
Huan-Ru Zeng (ZyXEL Communication Corp.)
Jyun-Yu Ke (National Cheng Kung University, Taiwan)

18. Case Study of a Gearbox-Like Routing Algorithm Selection in Runtime

Andrei Bogdan Rus (Technical University of Cluj-Napoca, Romania)
Virgil Dobrota (Technical University of Cluj-Napoca, Romania)

19. Network Management Game

Engin Arslan (University of Nevada, Reno, USA)
Murat Yuksel (University of Nevada, Reno, USA)
Mehmet H. Gunes (University of Nevada, Reno, USA)

SESSION 5: WIRELESS II

Friday, October 14, 2011. 11:15am - 12:30pm

Chair: Jack Brassil, HP Labs, USA

20. Characterizing Fairness for 3G Wireless Networks

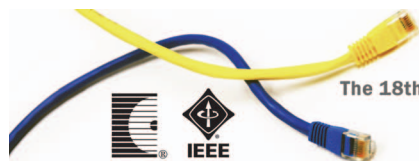
Vaneet Aggarwal (AT&T Labs Research, USA)
Rittwik Jana (AT&T Labs Research, USA)
Jeffrey Pang (AT&T Labs Research, USA)
K. K. Ramakrishnan (AT&T Labs Research, USA)
N. K. Shankaranarayanan (AT&T Labs Research, USA)

21. Combined Subcarrier Switch Off and Power Loading for 80 MHz Bandwidth WLANs

Oscar Puñal (RWTH Aachen University, Germany)
James Gross (RWTH Aachen University, Germany)

22. Mobile WiMAX Performance Measurements with Focus on Different QoS Targets

Christoph Ide (TU Dortmund University, Germany)
Bjoern Dusza (TU Dortmund University, Germany)
Christian Wietfeld (TU Dortmund University, Germany)



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PANEL SESSION

Friday, October 14, 2011. 2:00 - 3:15pm

Future Internet: Do We Need Fundamentally New Designs?

Moderator: Prof. Byrav Ramamurthy, University of Nebraska, Lincoln, USA

Panelists:

Prof. Kevin Jeffay, University of North Carolina, Chapel Hill, USA

Prof. Bruce Maggs, Duke University / Akamai Technologies, USA

Dr. K.K. Ramakrishnan, AT&T Labs Research, USA

Prof. George N. Rouskas, North Carolina State University, USA

SESSION 6: PERFORMANCE

Friday, October 14, 2011. 3:30 - 4:45pm

Chair: Virgil Dobrota, Technical University of Cluj-Napoca, Romania

23. Performance Comparison of Forecasting Models Applied to LAN/MAN Traffic Prediction

Rivalino Matias Jr. (Federal University of Uberlandia, Brazil)

Ana M. M. Carvalho (Federal University of Uberlandia, Brazil)

Valiana A. Teodoro (Federal University of Uberlandia, Brazil)

Daniel Tes (Federal University of Uberlandia, Brazil)

Lucio B. Araujo (Federal University of Uberlandia, Brazil)

24. Available Bandwidth Probing in Hybrid Home Networks

Oscar Olvera-Irigoyen (Orange Labs, France)

Abdesselem Kortebi (Orange Labs, France)

Laurent Toutain (Telecom Bretagne, France)

David Ros (Telecom Bretagne, France)

25. High-Performing Scale-out Solution for Deep Packet Processing via Adaptive Load-Balancing

Lina Battestilli (IBM, USA)

Terry Nelms (IBM, USA)

Steven Hunter (IBM, USA)

Gary Shippy (IBM, USA)