

ITC 33 - Networked Systems and Services

Aug. 31st - Sep. 3rd 2021, Avignon, France

Wednesday, Sept 1

Wednesday, Sept. 1 - 13:00 - 13:30 CET

[Opening](#)

Wednesday, Sept. 1 - 13:30 - 15:00 CET

[Session I: Wireless Networks I](#)

13:30 - 14:00 *"Near-optimal uplink scheduling for age-energy tradeoff in wireless systems"*, Pasi Lassila and Samuli Aalto (Aalto University, Finland)

14:00 - 14:30: *"A Math-Heuristic for Network Slice Design"*, Wesley da Silva Coelho, Amal Benhamiche and Nancy Perrot (Orange Labs, France); Stefano Secci (Cnam, France)

14:30 - 15:00: *"Optimizing shared data plans for mobile data access"*, Georgios Cheirmpas, Merkourios Karaliopoulos and Iordanis Koutsopoulos (Athens University of Economics and Business, Greece)

[Break: 15:00 - 15:30](#)

Wednesday, Sept. 1 - 15:30 - 16:30 CET

[Keynote: Speaker R. Srikant](#) *"The Unreasonable Effectiveness of the Lyapunov Drift Method: From Data Centers to Deep Reinforcement Learning"*, (University of Illinois Urbana-Champaign, US).

Wednesday, Sept. 1 - 16:30 - 18:00 CET

[Session II: Network Economics](#)

16:30 - 17:00 *"Optimizing shared data plans for mobile data access"*, Georgios Cheirmpas, Merkourios Karaliopoulos and Iordanis Koutsopoulos (Athens University of Economics and Business, Greece)

17:00 - 17:30 *"Proportional Pricing for Efficient Traffic Equilibrium at Internet Exchange Points"*, Md Ibrahim Ibne Alam (Rensselaer Polytechnic Institute, USA); Elliot Anshelevich (RPI,

USA); Koushik Kar (Rensselaer Polytechnic Institute, USA); Murat Yuksel (University of Central Florida, USA)

17:30 - 18:00 “Strategic Resource Management in 5G Network Slicing” (invited), Mandar K Datar (INRIA & LIA University of Avignon and the Pays de Vaucluse, France); Eitan Altman (INRIA, France)

Thursday, Sept 2

Thursday, Sept 2 - 13:00 - 15:00 CET

Session I: Performance Evaluation

13:00 - 13:30 “Robust Wireless Scheduling under Arbitrary Channel Dynamics and Feedback Delay” (invited), Jiatai Huang and Longbo Huang (Tsinghua University, China)

13:30 - 14:00 “Application of Network Calculus Models on Programmable Device Behavior”, Max Helm, Henning Stubbe, Dominik Scholz, Benedikt Jaeger, Sebastian Gallenmüller, Nemanja Deric and Endri Goshi (Technical University of Munich, Germany); Hasanin Harkous (Nokia & Technical University of Munich, Germany); Zikai Zhou, Wolfgang Kellerer and Georg Carle (Technical University of Munich, Germany)

14:00 - 14:30 “AÇAI: Ascent Similarity Caching with Approximate Indexes”, Tareq Si Salem (Université Côte d'Azur & Inria, France); Giovanni Neglia (Inria, France); Damiano Carra (University of Verona, Italy)

14:30 - 15:00 “Minimizing network bandwidth under latency constraints: The single node case” (invited), Jiayi Song and Roch Guérin (Washington University in St. Louis, USA); Hanrijanto Sariowan (Google LLC, USA)

Thursday, Sept 2 - 15:00 - 16:00 CET

Keynote: Speaker A. Feldman (TU Berlin, Germany).

Break: 16:00 - 16:30

Thursday, Sept 2 - 16:30 - 18:30 CET

Session II: Network Function Virtualisation

16:30 - 17:00: “Inference of virtual network functions' state via analysis of the CPU behavior”, Charles Shelbourne (BP R&D, United Kingdom (Great Britain)); Leonardo Linguaglossa (Telecom Paris, France); Tianzhu Zhang (Nokia Bell Labs & Laboratory of Information, Networking and Communication Sciences, France); Aldo Lipani (University College London, United Kingdom (Great Britain))

17:00 - 17:30 “Efficient Switch Migration for Controller Load Balancing in Software Defined Networking” (invited), Rajorshi Biswas and Jie Wu (Temple University, USA)

17:30 - 18:00: “What You Need to Know About Optical Circuit Reconfigurations in Datacenter Networks”, Johannes Zerwas, Wolfgang Kellerer and Andreas Blenk (Technische Universität München, Germany)

18:00 - 18:30: “Application-Aware End-to-End Virtualization Using a Named-Object Based Network Architecture”, Francesco Bronzino (Université Savoie Mont Blanc, France); Sumit Maheshwari (Microsoft Corporation, USA); Ivan Seskar (Rutgers University, USA); Dipankar Raychaudhuri (Rutgers University, USA)

Friday, Sept 3

Friday, Sept 3 - 13:00 - 14:00 CET

Keynote: Speaker R. Buyya **“Neoteric Frontiers in Cloud and Edge Computing”** (University of Melbourne, Au)

Friday, Sept 3 - 14:00 - 15:00 CET

Session I: Wireless Networks II

14:00 - 14:30 “To Buffer or Not To Buffer: IEEE 802.11p/bd Performance Under Different Buffering Strategies”, Andrea Baiocchi (University of Roma Sapienza, Italy); Ion Turcanu (University of Luxembourg, Luxembourg); Alexey Vinel (Halmstad University, Sweden)

14:30 - 15:00 “Performance Evaluation of Full Duplex Communications in 5G Networks: The Impact of Interference and Traffic Asymmetry”, Yiğit Özcan and Catherine Rosenberg (University of Waterloo, Canada)

Break: 15:00 - 15:30

Friday, Sept 3 - 15:30 - 18:00 CET

Session II: AI Methods for Networking

15:30 - 16:00: Giovanni Neglia (INRIA, France)

16:00 - 16:30 Stefan Schmid (Technical University of Berlin, Germany)

16:30 - 17: 00 Lorenzo Maggi (NOKIA Bell Labs, France)

17: 00 - 17:30 Georgios Iosifidis (TU Delft, The Netherlands)

17: 30 - 18:00 Xin Liu (UC Davis, US)