

## Tuesday 4<sup>th</sup> September, 2018

- 09:00 – 10:30 Opening & **Keynote** by Debasis Mitra (Columbia University)  
*An Engineer's Perspective on Some Societal Problems*
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 **Session 1: Performance Evaluation**  
*Evaluating Rare Events in Mission Critical Dispatching Systems* by Esa Hyttiä; Rhonda Righter  
*Statistical Delay Bounds for Automatic Repeat Request Protocols with Pipelining* by Mark Akselrod; Markus Fidler  
*Whittle Index Approach to Energy-Aware Dispatching* by Samuli Aalto; Pasi Lassila  
*On Occupancy Based Randomized Routing Schemes in Large Systems of Shared Servers* by Thirupathiah Vasantam; Ravi R Mazumdar
- 12:30 – 14:00 Lunch
- 14:00 – 15:30 **Session 2: Mobile Edge Computing**  
*Online Algorithms for Cost-Effective Cloud Selection with Multiple Demands* by Youngmi Jin; Michiaki Hayashi; Atsushi Tagami  
*Application-Agnostic Offloading of Datagram Processing* by Oliver Hohlfeld; Jens Helge Reelfs; Jan R  th; Florian Schmidt; Torsten Zimmermann; Jens Hiller; Klaus Wehrle  
*A Popularity-Based Approach for Effective Cloud Offload in Fog Deployments* by Marcel Enguehard; Giovanna Carofiglio; Dario Rossi  
*Time Constrained Service-aware Migration of Virtualized Services for Mobile Edge Computing* by Peiyue Zhao; Gy  rgy D  n
- 15:30 – 16:00 Coffee break

**Tuesday 4<sup>th</sup> September, 2018 (cont.)**

16:00 – 17:30 **Session 3.1: PhD Workshop**

*Optimal Fairness and Quality in Video Streaming With Multiple Users* by Christian Moldovan; Tobias Hoßfeld; Poul E. Heegaard; Lea Skorin-Kapov

*Performance Evaluation of Container based Virtualization on Embedded Microprocessors* by Vivian Noronha; Thomas Bauschert ; Ekkehard Lang; Maximilian Riegel

**Session 3.2: Madness Session**

*WhatsAnalyzer: a Tool for Collecting and Analyzing WhatsApp Mobile Messaging Communication Data* by Anika Schwind; Michael Seufert

*Effects of Adaptive Streaming Optimizations on the Perception of 360° Virtual Reality Video* by Joris Heyse; Maria Torres Vega; Tim Wauters; Femke De Backere; Filip De Turck

*Exploring the Transmission Behaviour of Overwatch: The Source of Lag* by Florian Metzger; Roman Heger

*Deriving YouTube Playout Phases from Encrypted Packet Level Traffic* by Stefan Geissler; Stanislav Lange; Florian Wamser; Tobias Hoßfeld

*RB-OLITS: A Worst-case Reorder Buffer Size Reduction Method for 3D-NoC based on Ohm's Law-like Traffic Splitting* by Zhenmin Li; Renshi Fan; Du Gao-ming; Yifan Cao; Zhonghai Lu; Gao Ming-lun

Evening Welcome Reception

## Wednesday 5<sup>th</sup> September, 2018

- 09:00 – 10:30 **Session 4.1: Vision Day A**  
*Network Science and Telecommunications* by Piet Van Mieghem  
*Networks and Market Mechanisms* by Mikaël Touati
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 **Session 5: Young Researchers Session**  
*Online Resource Allocation in Dynamic Optical Networks* by Ronald Romero Reyes; Thomas Bauschert  
*Optimization of Controller Placement and Information Flow in Softwarized Networks* by Stanislav Lange  
*Synopsis of the PhD Thesis -Network Computations in Artificial Intelligence* by Decebal Constantin Mocanu  
*Cognitive Real-time QoE Management of Video Streaming Services* by Maria Torres Vega; Antonio Liotta  
*From Self-Sustainable Green Mobile Networks to Enhanced Interaction with the Smart Grid* by Daniela Renga; Michela Meo
- 12:30 – 14:00 Lunch
- 14:00 – 15:30 **Session 4.2: Vision Day Session B**  
*Wireless and the City* by Philippe Jacquet  
*Data-driven Decisions in Communication Systems* by Alexandre Proutiere
- 15:30 – 16:00 Coffee break / Poster & Demo Session
- 16:00 – 17:00 ITC Award Session
- Evening Gala Dinner

## Thursday 6<sup>th</sup> September, 2018

- 09:00 – 10:30 **Session 6: Wireless and Cellular Networks**  
*Performance Evaluation of Scheduling Schemes for D2D Communications* by Antonia Maria Masucci; Philippe Olivier; Alain Simonian  
*Can Decentralized Status Update Achieve Universally Near-Optimal Age-of-Information in Wireless Multiaccess Channels?* by Zhiyuan Jiang; Bhaskar Krishnamachari; Sheng Zhou and Zhisheng Niu  
*Driven by Capacity or Blockage? A Millimeter Wave Blockage Analysis* by Ish K Jain; Rajeev Kumar; Shivendra Panwar  
*Enabling a Win-Win Coexistence Mechanism for WiFi and LTE in Unlicensed Bands* by Ilenia Tinnirello; Domenico Garlisi; Fabrizio Giuliano
- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 **Session 7: Network Measurements**  
*Can WebRTC QoS Work? A DSCP Measurement Study* by Runa Barik; Michael Welzl; Ahmed Mustafa Elmokashfi; Thomas Dreibholz; Stein Gjessing  
*LENTA: Longitudinal Exploration for Network Traffic Analysis* by Andrea Morichetta; Marco Mellia  
*TimeWeaver: Opportunistic One Way Delay Measurement via NTP* by Ramakrishnan Durairajan; Sathiya Kumaran Mani; Paul Barford; Robert Nowak; Joel Sommers  
*A Heuristic Approach to Assess the Traffic Matrix of an ISP exploiting Segment Routing Flexibility* by Antonio Cianfrani; Marco Polverini; Trupti Nalawade
- 12:30 – 14:00 Lunch
- 14:00 – 15:30 **Session 8: Network Architectures and Paradigms**  
*A Semi-Virtualized Testbed Cluster with a Centralized Server for Networking Education* by Mark Schmidt; Andreas Stockmayer; Florian Heimgaertner; Michael Menth  
*Performance Implications of Packet Filtering with Linux eBPF* by Dominik Scholz; Daniel Raumer; Paul Emmerich; Alexander Kurtz; Krzysztof Lesiak; Georg Carle  
*Impact of TCP BBR on CUBIC Traffic: A Mixed Workload Evaluation* by Habtegebrel Haile; Anna Brunstrom; Karl-Johan Grinnemo; Per Hurtig; Eneko Atxutegi; Fidel Liberal; Åke Arvidsson  
*Performance Evaluation of Service Functions Chain Placement Algorithms in Edge Cloud* by Lam Dinh-Xuan; Michael Seufert; Florian Wamser; Constantinos Vassilakis; Anastasios Zafeiropoulos; Phuoc Tran-Gia

**Thursday 6<sup>th</sup> September, 2018 (cont.)**

15:30 – 16:00 Coffee break

16:00 – 17:30 **Session 9: Application Scenarios and Farewell Session**

*Improving Mobile Video Quality Through Predictive Channel Quality Based Buffering* by Jan Willem Kleinrouweler; Britta Meixner; Joost W

Bosman; Hans van den Berg; Rob van der Mei; Pablo Cesar

*Network-level Cooperation in Random Access IoT Networks with Aggregators* by Nikolaos Pappas; Zheng Chen