

# International Workshop on Network Calculus and Applications (NetCal 2018)

Friday 7<sup>th</sup> September, 2018

- 09:00 – 09:15 Opening
- 09:15 – 10:15 **Keynote** by Jean-Yves Le Boudec (EPFL, Switzerland)  
*Network Calculus, from Integrated Services to Deterministic Networking*
- 10:15 – 10:30 Coffee Break
- 10:30 – 12:30 **Session I: Applications**  
*Latency and Backlog Bounds in Time-Sensitive Networking with Credit Based Shapers and Asynchronous Traffic Shaping* by Ehsan Mohammadpour; Eleni G Stai; Maaz Mohiuddin; Jean-Yves Le Boudec  
*Multi-interface Communication: Interface Selection under Statistical Performance Constraints* by Sounak Kar; Amr Rizk; Markus Fidler  
*Energy Management in Wireless Communications with Energy Storage Imperfections* by Sami Akin  
*Stochastic Guarantees for Rate-Adaptive Streaming* by Mark Akselrod; Markus Fidler; Ralf Lübben
- 12:30 – 13:30 Lunch
- 13:30 – 15:00 **Session II: Service and Arrival Characterizations**  
*A Fluid-Flow Interpretation of SCED Scheduling* by Jorg Liebeherr  
*A General Per-Flow Service Curve for GPS* by Almut Burchard; Jorg Liebeherr  
*Integrating Fractional Brownian Motion Arrivals into the Statistical Network Calculus* by Paul Nikolaus; Sebastian Henningsen; Michael A. Beck; Jens Schmitt
- 15:00 – 15:15 Coffee Break
- 15:15 – 16:45 **Session III: Analysis Techniques**  
*The Case for a Network Calculus Heuristic: Using Insights from Data for Tighter Bounds* by Fabien Geyer; Georg Carle  
*On Kernels and Queues: When Network Calculus Meets Analytic Combinatorics* by Anne Bouillard; Céline Comte; Élie de Panafieu; Fabien Mathieu  
*Network Calculus for Mean Delay Analysis through a Network* by Fabrice M. Guillemin; Ravi R Mazumdar; Catherine Rosenberg; Yu Ying
- 16:45 – 17:00 Closing