International Workshop on Network Calculus and Applications (NetCal 2018)
Friday 7th 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