

Stochastic Networks Conference Tentative Program

Registration will take place in the main entrance hall of ENS.

From Monday to Friday, all lectures will be in "Salle Dussane".

The poster session will take place in "Salle des Actes" on Wednesday.

The Saturday lectures will take place in "Amphitheatre Rataud".

Mon:

8:30-10:00 Registration – Coffee

10:00-10:15 Introduction

François Baccelli and Jean Mairesse

10:15-11:15 Diffusion Approximation for a Heavily Loaded Multi-User
Wireless Communication System with Cooperation

Ruth Williams, UC San Diego, USA

11:15-11:30 Coffee Break

11:30-12:30 On the stationary measure of a reflected Brownian motion
in a wedge:some explicit results

Ton Dieker, IBM Research New York, USA

12:30-2:30 Lunch

2:30-3:30 Signaling in A Random Boolean Network

Lea Popovic, Concordia University, USA

3:30-4:00 Coffee Break

4:00-5:00 Understanding complex, multiscale networks

Tom Kurtz, University of Wisconsin-Madison, USA

5:30 "Cocktail de bienvenue"

Tue:

10:00-11:00 Exact asymptotics for nonlinear large deviations of a queue
in a network

David Mc Donald, University of Ottawa, Canada

11:00-11:30 Coffee Break

11:30-12:30 Large Deviations of Queues Sharing a Randomly
Time-varying Server

Sasha Stolyar, Lucent Bell Labs, USA

12:30-2:30 Lunch

2:30-3:30 Blind Network Revenue Management

Assaf Zeevi, Columbia University, USA

3:30-4:00 Coffee Break

4:00-5:00 Convergence times in large coordination games and
Ising models

Andrea Montanari, Stanford University, USA

Wed:

10:00-11:00 Asymptotic approximations of many-server queues **Kavita Ramanan, Carnegie Mellon, USA**

11:00-11:30 Coffee Break

11:30-12:30 Pushing mean field asymptotics to the limits **Alexandre Proutiere, Microsoft, UK**
The stability and performance of random medium access control

12:30-2:30 Lunch

2:30-3:30 Best Poster Lecture
Correlation Decay in Random Decision Networks: **David Gamarnik and Théophane Weber, MIT, USA**
Sufficient Conditions for Efficient Decentralized Optimization

3:30-4:00 Coffee Break

4:00 Poster Session

Thu:

9:00-10:00 Route Lengths and Optimal Spatial Networks **David Aldous, UC Berkeley**

10:00-10:30 Coffee Break

10:30-11:30 How to quench a rumor in a decentralized network ? **Charles Bordenave, Université of Toulouse, France**

11:30-12:30 Fixed points for multiclass queues, via interchangeability **James Martin, University of Oxford, UK**

Afternoon off

Fri:

10:00-11:00 Understanding the maximum weight policy **Devavrat Shah, MIT, USA**

11:00-11:30 Coffee Break

11:30-12:30 Content popularity and user profiling for content placement in peer-to-peer VoD systems **Laurent Massoulié, Thomson, France**

12:30-2:30 Lunch

2:30-3:30 Diffusion Approximations for Controlled Stochastic Networks **Amarjit Budhiraja, University of North Carolina, USA**

3:30-4:00 Coffee Break

4:00-5:00 Convergence to stationarity of reflected fractional Browian motion **Michel Mandjes, University of Amsterdam, NL**

7:30 Dinner at the senat

Sat:

10:00-11:00 Heavy tails in stochastic networks

Serguei Foss, Heriot-Watt University, UK

11:00-11:30 Coffee Break

11:30-12:30 Synchronizing clocks over networks

Kumar P.R., University of Illinois, USA