

Centre de recherches mathématiques
Université de Montréal

Atelier sur le dessin de réseaux : Optimisation et théorie des jeux
algorithmique
Du 14 au 16 août 2006

Workshop on Network design: Optimization and Algorithmic Game Theory
August 14-16, 2006

HORAIRE / PROGRAM

Conférences : salle 6214
Pauses-café : salle 6245

Lectures: Room 6214
Coffee Breaks: Room 6245

Le lundi 14 août 2006 / *Monday, August 14, 2006*

08:30 - 09:30 Inscription (5345) / *Registration (5345)*

08:30 - 09:30 Café croissants (6245) / *Coffee & Croissants (6245)*

Session - Matin / *Morning*

09:30 - 10:10 **Ramesh Johari** (Stanford University)

“Myopic Dynamics for a Network Formation Game with Routing”

10:10 - 10:50 **Elliot Anshelevich** (Rensselaer Polytechnic Institute)

“Local Peering and Service Contracts in Strategic Network Formation”

10:50 - 11:20 Pause café / *Coffee break*

(Salle / *Room* 6245)

11:20 - 12:00 **Sean Meyn** (University of Illinois at Urbana-Champaign)

“Dynamics of Prices in Electric Power Networks”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

Session - Après-midi / *Afternoon*

14:00 - 14:40

14:40 - 15:20 **Gordon Wilfong** (Bell Laboratories, Lucent Technologies)

“The Border Gateway Protocol (BGP) and Harmonious Routings”

15:20 - 15:50 Pause café / *Coffee break*

(Salle / *Room* 6245)

15:50 - 16:30 **Kamal Jain** (Microsoft Research)

“Primal-dual algorithm for convex optimization - a work in progress”

16:45 Cocktail de bienvenue (6245) / *Welcoming reception (6245)*

Le mardi 15 août 2006 / *Tuesday, August 15, 2006*

09:00 - 09:30 Café croissants (6245) / *Coffee & Croissants (6245)*

Session - Matin / *Morning*

09:30 - 10:10 **Vahab S. Mirrokni** (Microsoft Research)

“Convergence and Approximation in Games”

10:10 - 10:50 **Seffi Naor** (Microsoft Corporation)

“Non-Cooperative Multicast and Facility Location Games”

10:50 - 11:20 Pause café / *Coffee break*

(Salle / *Room* 6245)

11:20 - 12:00 **Nahum Shimkin** (Technion)

“Capacity Management and Equilibrium for Proportional QoS”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

Session - Après-midi / *Afternoon*

14:00 - 14:40 **Kate Larson** (University of Waterloo)

“Mechanism Design with Limited Information”

14:40 - 15:20 **Jason Hartline** (Microsoft Research)

“Collusion Resistant Mechanism Design”

15:20 - 15:50 Pause café / *Coffee break*

(Salle / *Room* 6245)

15:50 - 16:30 **Bruce Shepherd** (Bell Laboratories, Lucent Technologies)

“Robust Minimum Cost Networks”

19:00 Dîner au restaurant / *Workshop Dinner*

Bistro L'Entrepont

4622, rue Hôtel-de-ville

(Metro Mont-Royal)

Le mercredi 16 août 2006 / *Wednesday, August 16, 2006*

09:00 - 09:30 Café croissants (6245) / *Coffee & Croissants (6245)*

Session - Matin / *Morning*

- 09:30 - 10:10 **Mohammad Taghi Hajiaghayi** (Carnegie Mellon University)
“Auctions for dynamic environments : WiFi, last-minute tickets and grid computing”
- 10:10 - 10:50 **Nicole Immorlica** (Microsoft Research)
“Matroids, Secretary Problems, and Online Mechanisms”
- 10:50 - 11:20 Pause café / *Coffee break*
(Salle / *Room* 6245)
- 11:20 - 12:00 **Yishay Mansour** (Tel Aviv University)
“Strong Price of Anarchy”

12:00 - 14:00 Pause déjeuner / *Lunch Break*

Session - Après-midi / *Afternoon*

- 14:00 - 14:40 **Tim Roughgarden** (Stanford University)
“Approximately Efficient Cost-Sharing Mechanisms for Network Design”
- 14:40 - 15:20 **Jochen Konemann** (University of Waterloo)
“An Efficient Cost-Sharing Mechanism for the Prize-Collecting Steiner Forest Problem”
- 15:20 - 15:50 Pause café / *Coffee break*
(Salle / *Room* 6245)
- 15:50 - 16:30 **Andreas S. Schulz** (MIT)
“On the computational complexity of congestion games”