

Optimization Tutorials

Tuesday September 14, 2010

- 8:00–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:45 **Christine Bachoc** (Université de Bordeaux I)
Invariant semidefinite programs
- 10:45–11:15 *Break*
- 11:15–12:30 **Michael Friedlander** (University of British Columbia)
Algorithms for Sparse Optimization
- 12:30–1:00 *OP2010 Core Orientation*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:45 **Matthias Koepp** (University of California, Davis (UC Davis))
Generating function methods in discrete optimization
- 3:45–4:15 *Break*
- 4:15–5:30 **Giuseppe Calafiore** (Politecnico di Torino)
Introduction to Robust Optimization

Wednesday September 15, 2010

- 8:00–9:30 *Continental Breakfast*
- 9:30–10:45 **Christine Bachoc** (Université de Bordeaux I)
Invariant semidefinite programs
- 10:45–11:15 *Break*
- 11:15–12:30 **Michael Friedlander** (University of British Columbia)
Algorithms for Sparse Optimization
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:45 **Matthias Koepp** (University of California, Davis (UC Davis))
Generating function methods in discrete optimization
- 3:45–4:15 *Break*
- 4:15–5:30 **Giuseppe Calafiore** (Politecnico di Torino)
Introduction to Robust Optimization



Thursday September 16, 2010

- 8:00–9:30 *Continental Breakfast*
- 9:30–10:45 **Jiawang Nie** (University of California, San Diego (UCSD))
Semidefinite Programming Methods for Multivariate Polynomial Optimization
- 10:45–11:15 *Break*
- 11:15–12:30 **Marc Teboulle** (Tel Aviv University)
First Order Algorithms for Convex Minimization
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:45 **Frank Vallentin** (Technische Universiteit te Delft)
Grothendieck-type inequalities, semidefinite programs, and unique games
- 3:45–4:15 *Break*
- 4:15–5:30 **Marc Teboulle** (Tel Aviv University)
First Order Algorithms for Convex Minimization

Friday September 17, 2010

- 8:00–9:30 *Continental Breakfast*
- 9:30–10:45 **Jiawang Nie** (University of California, San Diego (UCSD))
Semidefinite Programming Methods for Multivariate Polynomial Optimization
- 10:45–11:15 *Break*
- 11:15–12:30 **Laurent El Ghaoui** (University of California, Berkeley (UC Berkeley))
Robust optimization in machine learning.
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:45 **Frank Vallentin** (Technische Universiteit te Delft)
Grothendieck-type inequalities, semidefinite programs, and unique games
- 3:45–4:15 *Break*
- 4:15–5:30 **Laurent El Ghaoui** (University of California, Berkeley (UC Berkeley))
Safe feature elimination in l_1 -penalized optimization problems

