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Convex Relaxation Methods for Geometric Problems in Scientific Computing

February 11 - 15, 2013

IPAM Building

Printable Version

Monday, February 11, 2013

Morning	Session
IVIOLITIII	36331011

8:00 - 8:55 Check-In/Breakfast (Hosted by IPAM) 8:55 - 9:00 Welcome and Opening Remarks

9:00 - 9:50 Francis Bach (Institut National de Recherche en Informatique Automatique (INRIA))

"Structured Sparsity-inducing Norms through Submodular Functions"

10:00 - 10:15 Break

10:15 - 11:05 Massimiliano Pontil (University College London)

"Multi-task Learning and Structured Sparsity"

11:15 - 11:30 Break

11:30 - 12:20 Gabriele Steidl (Universität Kaiserslautern)

"Constrained image restoration problems"

12:30 - 2:30 Lunch (on your own)

Afternoon Session

2:30 - 3:20 Amir Beck (Technion - Israel Institute of Technology)

"Sparsity Constrained Nonlinear Optimization: Optimality Conditions and Algorithms"

3:30 - 4:00 Break

4:00 - 4:50 Yuri Boykov (University of Western Ontario)

5:00 - 7:00 Reception and Poster Session (Hosted by IPAM)

Tuesday, February 12, 2013

Morning Session

8:00 - 9:00 Continental Breakfast

9:00 - 9:50 Xavier Bresson (City University of Hong Kong)

"Total Variation Clustering"

10:00 - 10:15 Break

10:15 - 11:05 Thomas Pock (Technische Universität Graz)

"Convex relaxation of a class of vertex penalizing functionals"

11:15 - 11:30 Break

11:30 - 12:20 Tom Goldstein (Rice University)

"Fast alternating direction methods for Optimization"

12:30 - 2:30 Lunch (on your own)

Afternoon Session

2:30 - 3:20	Selim Esedoglu (University of Michigan) "Threshold dynamics for the mean curvature motion of networks with unequal surface tensions"
3:30 - 4:00 4:00 - 4:50	Break Jerome Darbon (University of California, Los Angeles (UCLA))

Wednesday February 13 2013

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Morning Session	
8:00 - 9:00	Continental Breakfast
9:00 - 9:50	Daniel Cremers (Technische Universtitat München)
	"Convex Relaxations for the Mumford-Shah Functional"
10:00 - 10:15	Break
10:15 - 11:05	Xue-Cheng Tai (University of Bergen)
	"Graph cut, convex relaxation and continuous max-flow problem"
11:15 - 11:30	Break
11:30 - 12:20	Luminita Vese (University of California, Los Angeles (UCLA))
12:30 - 2:30	Lunch (on your own)
Afternoon Session	on
2:30 - 3:20	Stanley Osher (University of California, Los Angeles (UCLA))
3:30 - 4:00	Break
4:00 - 4:50	Jan Lellmann (University of Cambridge)

Thursday, February 14, 2013

Morning Session	
8:00 - 9:00	Continental Breakfast

9:00 - 9:50 Antonin Chambolle (École Polytechnique)

10:00 - 10:15 Break

Gabriel Peyre (Université de Paris IX (Paris-Dauphine)) 10:15 - 11:05

"SURE-based Parameter Selection for Sparse Regularization of Inverse Problems"

"Convexity and Non-Convexity in Partitioning and Interpolation Problems"

11:15 - 11:30 Break

Wotao Yin (Rice University) 11:30 - 12:20

12:30 - 2:30 Lunch (on your own)

Afternoon Session

2:30 - 3:20 Nikos Komodakis (École Nationale des Ponts-et-Chaussées)

"Efficient learning of high order graphical models for computer vision and image analysis"

3:30 - 4:00 Break

Christoph Schnörr (University of Heidelberg) 4:00 - 4:50

"Shape, Segmentation and Convex Relaxations in Computer Vision"

Friday, February 15, 2013

Morning Session

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8:00 - 9:00	Continental Breakfast
9:00 - 9:50	Mila Nikolova (École Normale Supérieure de Cachan)
	" £1-concave versus £1 - TV energies. Questions and challenges"
10:00 - 10:15	Break
10:15 - 11:05	Simon Setzer (Saarland University)
	"Optimizing Data for Interpolation and Approximation with Homogeneous Diffusion"
11:15 - 11:30	Break
11:30 - 12:20	Matthias Hein (Saarland University)
	"Nonlinear Eigenproblems and Tight Relaxations of Constrained Fractional Set Programs"
12:30	Conclusion
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