

"Algorithms and dynamics over networks" Workshop 2012

Date: February 8-9, 2012

Venue: Aula Buzano, DISMA, Politecnico di Torino

Organizers: G. Calafiore, F. Fagnani, P. Frasca, S. Zampieri

Sponsor: MIUR-PRIN 20087W5P2K

Abstract: The study of networks and of network-based dynamical systems has proved to be an essential tool to develop innovative technologies. In this workshop, an international group of young scholars present their current research in the field. Topics include optimization, synchronization, coordination, and filtering; applications range from traffic to sensor and power networks.

Program

Wednesday, Feb. 8

9 am: Julien M. Hendrickx (Louvain-la-Neuve). *A new convergence condition for continuous-time consensus seeking systems*

10 am: Domenica Borra (PoliTo). *Distributed algorithms for networks of cameras*

11 am: Sophie Fosson (PoliTo). *Convergence of opinion dynamics models with stubborn agents: an open problem*

2 pm: Giuseppe Notarstefano (Lecce). *Distributed constrained optimization in peer-to-peer networks: from linear to abstract programming*

3 pm: Mathias Bürger (Stuttgart). *Coordination-free optimization and dynamic negotiation in peer-to-peer systems*

4 pm: Luca Carlone (PoliTo). *Distributed random convex programming for uncertain optimization problems*

5 pm: Federica Garin (Grenoble). *Energy-aware wireless networked control using radio-mode management*

Thursday, Feb. 9

9 am: Chiara Ravazzi (PoliTo). *Input driven consensus algorithm for hybrid ML-map estimation in sensor networks*

10 am: Giacomo Como (Lund). *Robust routing in dynamical networks*

11 am: Enrico Lovisari (Padova). *A framework for robust synchronization in heterogeneous multi-agent networks*

2 pm: Wilbert S. Rossi (PoliTo). *Relative localization in large networks*

3 pm: Saverio Bolognani (Padova). *A distributed control strategy for reactive power compensation in smart microgrids*

4 pm: Damiano Varagonolo (Padova). *Distributed size estimation in anonymous networks*

5 pm: Ruggero Carli (Padova). *Distributed algorithms for clocks synchronization in wireless sensors networks*