

SADCO SUMMER SCHOOL & WORKSHOP 2012 NEW TRENDS IN OPTIMAL CONTROL

Ravello, September 3 – 7, 2012

PROGRAM

All lectures and talks will take place in the Aula Magna of "Biblioteca Franciscana", via San Francesco 13.

Courses:

- [C1] **Piermarco Cannarsa and Carlo Sinestrari:** *Optimal control, Hamilton-Jacobi equations and singularities in euclidean and riemaniann spaces.*
- [C2] **Pierre Cardaliaguet:** *Optimal control and mean field games.*
- [C3] **Zvi Artstein:** *Control of coupled fast and slow dynamics.*
- [C4] **Benedetto Piccoli:** *Intelligent groups and sparse control.*
- [C5] **Matthew R. James:** *Quantum feedback control.*

	Monday - 3	Tuesday - 4
9:00 -- 10:30	C1	C2
10:30 -- 11:00	Coffee Break	Coffee Break
11:00 -- 12:30	C4	C3
12:30 -- 14:00	Lunch Break	Lunch Break
14:00 -- 15:30	C1	C4
15:30 -- 16:00	Coffee Break	Coffee Break
16:00 -- 17:30	C3	C5

	Wednesday - 5	Thursday - 6
9:00 -- 10:30	C3	C4
10:30 -- 11:00	Coffee Break	Coffee Break
11:00 -- 12:30	C2	C2
12:30 -- 14:00	Lunch Break	Lunch Break
14:00 -- 15:30	C1	C5
15:30 -- 16:00	Coffee Break	Coffee Break
16:00 -- 17:30	C5	C1
17:45 -- 19:30	Poster Session	Supervisory Board Meeting

Workshop Speakers

- Fabio CAMILLI:** *The vanishing viscosity limit for Hamilton-Jacobi equations on networks*
- Monica MOTTA:** *On exit times and infinite horizon problems with a vanishing lagrangian*
- Hans J. PESCH:** *An introduction to optimal control problems for PDEs with real life applications*
- Antonio SICONOLFI:** *Control problems in stratified structures*
- Pierpaolo SORAVIA:** *Noncoercive Hamiltonians, absolute minimizers and Aronsson equation*
- Daniela TONON:** *Inward pointing trajectories, Lavrentieff phenomenon and normality of the Maximum principle for Bolza problem under state constraints*
- Delfim F.M. TORRES:** *The fractional optimal control*
- Richard VINTER:** *Properties of optimal trajectories that are not also relaxed optimal trajectories*
- Mario ZANON:** *Fast Model Predictive control and moving horizon estimation for Tethered planes*

Friday - 7	
9:15 -- 10:00	Hans J. Pesch
10:00 -- 10:30	Monica Motta
10:30 -- 11:00	Coffee Break
11:00 -- 11:30	Daniela Tonon
11:30 -- 12:00	Delfim F.M. Torres
12:00 -- 12:30	Fabio Camilli
12:30 -- 14:00	Coffee Break
14:00 -- 14:30	Antonio Siconolfi
14:30 -- 15:00	Pierpaolo Soravia
15:00 -- 15:30	Coffee Break
15:30 -- 16:00	Mario Zanon
16:00 -- 16:30	Richard Vinter
16:30 -- 16:45	Conclusions