Analysis, Control and Inverse Problems for PDEs, Napoli 26-30 novembre 2018

PROGRAM

	Monday, November 26
8:15-9:00	Registration (in Rectorate)
9:00-9:40	Opening (in Rectorate)
9:40-10:20	J.-M. Coron (in Rectorate) - *From the water clocks to the regulation of rivers*
10:20-11:00	Transfer to the Accademia
11:00-11:30	Coffee break
11:30-12:10	E. Trélat - *Positive minimal time for the control of state constrained dynamical systems*
12:10-12:50	Y. Privat - *Optimal control of resources for species survival*
12:50-13:30	U. Boscain - *The self-adjointness of the Laplacian and the underlying geometry*
13:30-15:00	Lunch in Accademia
15:00-15:25	A) D. Barilari - *On the regularity of abnormal minimizers for rank 2 sub-Riemannian Structures* B) F. Bucci - *On Riccati equations arising in the optimal boundary control of certain PDE systems with predominant or full hyperbolic character*
15:25-15:50	A) T. Scarinci - *Some results about stability analysis, regularizations and applications* B) C. Clason - *Bouligand-Landweber iteration for a non-smooth ill-posed problem*
15:50-16:05	A) T. Sproll - *Numerical Identification of Motor Units in Muscles* B) C. Zhang - *Internal rapid stabilization by a scalar feedback for the 1-D linear transport equation*
16:05-16:35	Coffee break
16:35-17:15	F. Rossi - *Controllability and minimal time for control of the transport equation*
17:15-17:55	A. Schiela - *An affine covariant composite step method for equality constrained optimization in function space*

	Tuesday, November 27
9:00-9:40	B. Perthame - *Tumor growth: from compressible models to free boundary problems*
9:40-10:20	P. Marcati - *QHD: when fluid dynamics meets with quantum mechanics*
10:20-11:00	O. Glass - *One-side boundary controllability of the p-system*
11:00-11:30	Coffee break
11:30-11:55	A) A. Marigonda - *A Bolza problem in Wasserstein space* B) F. M. Hante - *Hybrid System Theory for Gas Network Operation*
11:55-12:20	A) M. Palladino - *On a Model for the Growth of Tree Stems and Vines* B) G. Olive - *Observability inequalities with compact remainder*
12:20-12:35	A) C. Urbani - *Bilinear control of parabolic evolution equations* B) A. Hayat - *Stabilization of 1D nonlinear hyperbolic equations in fluid mechanics*
12:35-12:50	A) C. Pouchol - *Phase portrait control for 1D monostable and bistable reaction- diffusion Equations* B) M. T. Chiri - *Conservation laws for a network of supply chains with discontinuous speed and finit buffer*
12:50-13:30	B. Jacob - *On continuity of solutions for parabolic control systems and input-to- state stability*
13:30-14:45	Lunch in Accademia
14:45-15:25	F. Ancona - *Exponential Stability of Large BV Solutions in a Model of Granular flow*
15:25-16:05	P. Goatin - *Traffic control by autonomous vehicles*
16:05-16:35	Coffee break
16:35-17:15	A. Cesaroni - *On the optimization of conservation laws at a junction*
17:15-17:55	G. M. Coclite - *Nonlinear Peridynamic Models*

	Wednesday, November 28
9:00-9:40	F. Alabau-Boussouira - *Control and indirect stabilization, examples and applications*
9:40-10:20	E. Zuazua - *Control of some models in population dynamics*
10:20-11:00	K. Beauchard - *Null controllability of hypoelliptic equations on the whole space*
11:00-11:30	Coffee break
11:30-12:10	A. Porretta - *The turnpike property in mean field games*
12:10-12:50	H. Frankowska - *Invariance of Sets under Semilinear Systems*
12:50-13:30	K. A. Morris - *Optimal Actuator Location in Semi-linear PDEs*
13:30-14:30	Lunch in Accademia
15:00-19:00	Social visits
20:00-22:00	Social dinner

	Thursday, November 29
9:00-9:40	G. Buttazzo - *Optimal reinforcing networks for elastic structures*
9:40-10:20	D. Bucur - *Maximization of Neumann eigenvalues*
10:20-11:00	C. Trombetti - *Isoperimetric inequalities for Steklov-Laplacian eigenvalues*
11:00-11:30	Coffee break
11:30-11:55	A) P. Baldi - *Control of water waves and quasilinear evolution PDEs* B) P. Martinez - *The cost of controlling parabolic equations with inverse square potential or degeneracy inside*
11:55-12:20	A) F. Leonetti - *Maximum principles for some elliptic systems* B) M. Morancey - *A block moments method: dealing with spectral condensation in the minimal null control time problem for parabolic systems with scalar control*
12:20-12:45	A) F. Iurlano - *Concentration analysis of brittle damage* B) P. Lissy - *Internal controls for a problem with fractional Laplacian using finite-difference method*
12:45-13:00	A) V. Basco - *Necessary conditions for infinite horizon optimal control problems under state constraints and Hamilton-Jacobi-Bellman equations* B) M. Marschall - *Bayesian inversion with adaptive low-rank approximation*
13:00-13:15	A) C. Mendico - *Long time behavior of first order mean field games on euclidean space* B) H. Takase - *Inverse Source Problem related to the Gravitational Waves in General Relativity*
13:15-14:45	Lunch in Accademia
14:45-15:25	N. Fusco - *Asymptotic stability of the gradient flow of nonlocal energies*
15:25-16:05	P. Baroni - *Some regularity results on double phase variational integrals*
16:05-16:35	Coffee break
16:35-17:15	R. Ignat - *A De Giorgi type conjecture for minimal solutions to a nonlinear Stokes Equation*
17:15-17:55	A. Pratelli - *Some existence results for the isoperimetric problem with double density*

	Friday, November 30
9:00-9:40	S. Bertoluzza - *Natural norm stabilization of unstable numerical methods*
9:40-10:20	S. Ervedoza - *Minimal time issues for the observability of Grushin like equations*
10:20-11:00	G. Russo - *Gaussian Wave Packet Transform methods for the semiclassical Schrödinger equation with random inputs*
11:00-11:30	Coffee break
11:30-11:55	A) B. Brandolini - *A sharp estimate for Neumann eigenvalues of the Laplace-Beltrami operator for domains in a hemisphere* B) G. Fragnelli - *A degenerate population equation: Carleman estimates and null controllability*
11:55-12:20	A) M. Cristofol - *Simultaneous determination of the drift and diffusion coefficients in stochastic differential equations* B) F. Marbach - *Quadratic Controllability*
12:20-12:35	A) D. A. La Manna - *An Isoperimetric Problem with a Nonlocal Term* B) M. Strazzullo - *Reduced Order Methods for Optimal Flow Control Problem with Application in Environmental Marine Sciences and Engineering*
12:35-13:15	T. Takeuchi - *A mathematical model for elastic-plastic composites and homogenization*
13:15-14:30	Lunch in Accademia
14:30-15:10	H. Egger - *Estimation of flow geometry and wall shear stress from magnetic resonance measurements*
15:10-15:50	F. Triki - *Identification of an algebraic domain from a finite number of its generalized polarization tensors*
15:50-16:30	M. Yamamoto - *Inverse problems by Carleman estimates for complex fluid dynamics*