

Second Junior European Meeting “Control Theory and Stabilization”

Dipartimento di Matematica
Politecnico di Torino
Torino, Italy, 3-5 December 2003

Version of 25/November/2003

Speakers

1. Ligia Abrunheiro (Univ. Aveiro, Portugal)
Riemannian Cubic Polynomials
2. Claudio Altafini (SISSA, Italy)
*Open quantum dynamical systems driven by coherent controls:
structure of the sets of reachable states*
3. David Avanesoff (INRIA Sophia Antipolis, France)
Dynamic linearization, flatness and parameterization of the set of trajectories
4. Karine Beauchard (Univ. Orsay, France-CTS)
Local controllability of a 1D nonlinear Schrödinger equation
5. Nicola Bettioli (SISSA, Italy)
Generating functions and minimax weak solutions: an approach for a Mayer Problem
6. Ugo Boscain (SISSA, Italy)
Resonance of Minimizers for n-level Quantum Systems with an Arbitrary Cost
7. Isabel Caiado (Univ. Aveiro, Portugal-CTS)
Considerations on stability of inverted pendula
8. Rui Carreira Rodrigues (Univ. Coimbra, Portugal)
Generalized splines in \mathbb{R}^n and optimal control
9. Thomas Chambrion (Université de Bourgogne, France)
Extension of left invariant systems on $SU(n)$. Application to finite dimensional approximations of Schrödinger equation
10. Natalia Chtcherbakova (SISSA, Italy)
On the minimizing properties of the 8-shaped solution of the 3-body problem
11. Roberto Giambò (Univ. Camerino, Italy)
An analytical theory for interpolation in Riemannian manifolds
12. Ewa Girejko (Univ. Białystok, Poland- CTS)
On generalized differential quotients of set-valued maps
13. Manuel Guerra (Univ. Lisboa, Portugal)
Discontinuous Hamiltonian Flows for Nonlinear Control Systems

14. Frederic Jean (ENSTA-Paris)
Iterative steering methods for generic driftless control systems
15. Vasyl Kovalchuk (Polish Academy of Sciences, Poland)
Hamiltonian systems on linear and projective groups and their control
16. Agnieszka Martens (Polish Academy of Sciences, Poland)
Dynamical systems on the affine group
17. Natalia Martins (Univ. Aveiro, Portugal)
Non-standard discrete derivatives and Existence Theorems for ODEs
18. Vitaly Nespirny (Institute of Applied Mathematics and Mechanics of NAS, Ukraine-ICTP)
Discontinuous and impulsive stabilization of nonlinear control systems
19. Bruno Picasso (Scuola Normale Superiore di Pisa, Italy)
Construction of invariant sets and stabilization of quantized linear systems
20. Laura Poggiolini (Univ. di Firenze, Italy)
Optimal Control Problem with free horizon
21. Christophe Prieur (CNRS Paris, France)
Robust stabilization of chained systems via hybrid control
22. Arturo Ramos (Univ. Padova, Italy)
New links and reductions between the Brockett nonholonomic integrator and related systems
23. Ludovic Rifford (Univ. Lyon, France)
On the stabilization problem in the plane
24. Ulysse Serres (SISSA, Italy)
On the Curvature of two-dimensional Control Systems
25. Mario Sigalotti (INRIA-SISSA, France- Italy)
On the controllability of the Dubins' problem for surfaces
26. Delfim F. M. Torres (Univ. Aveiro, Portugal)
Optimal Control of Newton-Type Problems of Minimal Resistance
27. Emmanuel Trelat (Univ. Orsay, France)
Global subanalytic solutions of Hamilton-Jacobi type equations
28. Malgorzata Wyrwas (Univ. Bialystok, Poland-CTS)
Analytic control systems and their properties related to observers
29. Karim Yakoubi (Univ. Orsay, Tunisia- ICTP)
30. Alexander Zuyev (Ukrainian Academy of Science, Donetsk, Ukraine-ICTP)
Strong partial stability of nonlinear continuous semigroups

Other participants

1. Deguenon Aytcheau (IMPS, Benin-ICTP)
2. Vittorio Barone Adesi (Univ. Trento, Italy)
3. Clement Boussard (ENSMP, Paris- France- CTS)
4. Zhu Changrong (China)

5. Gregoire Charlot (I3S, France)
6. Alexandre Choux (Univ. Dijon, France-CTS)
7. Jose Ramos Cueli (Universidad de Sevilla, Spain-CTS)
8. Neil Dobbs (Univ. Paris Sud, France-CTS)
9. Barbara Golubowska (IFTR Polish Academy of Sciences, Poland-CTS)
10. Tiberiu Ioana (Romania)
11. Tomasz Kapela (Univ. Krakow, Poland)
12. Chengbo Li (China)
13. Andrea Mantile (Univ. Napoli, Italy-Trim)
14. Francois Moukam (Univ. Yaoude, Cameroon-ICTP)
15. Shcherbyna Oleksiy (Ukraine)
16. Layeni Olawanle Patrick
17. Milena Radnovic (Mathematical Institute SANU, Belgrade, Serbia and Montenegro)
18. Ali Salem (Ecole Polytechnic de Tunisie-ICTP)
19. Rebecca Salmoni (Univ. Napoli, Italy, Trim.)
20. Katarzyna Zadarnowska (Wroclaw University of Technology, Poland-CTS)

Important Addresses

The workshop will take place at:

Aula Buzano
Dipartimento di Matematica
Politecnico di Torino
c.so Duca degli Abruzzi n.24 -3rd floor
10129 Torino

Accomodations

Residenza Universitaria Servizio foresteria
via Cavour n.32
Torino

Hotel Abatjour
via Galliari n.19 -2nd floor
10125 Torino

Hotel Bologna
c.so Vittorio Emanuele II n.60
10128 Torino

Social dinner

Social dinner will be on Thursday, December 4, afternoon.

Proceedings

Proceedings of the workshop will be published by the journal *Rendiconti del seminario matematico dell'Università e del Politecnico di Torino*:

<http://seminariomatematico.dm.unito.it/rendiconti>

Articles to be published should contain an original result. The final version of papers to be published should be sent by e-mail to Francesca Ceragioli (ceragiol@calvino.polito.it).