2023
International Graduate School on Control
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Independent Graduate Modules, one 21 hours module per week (3 ECTS)
Deadline for early registration: - to the modules M01 to M06: ???
                                                      - to the modules M07 to M21: ???

Module	Title	Lecturers
M01 – MILAN 06/02/2023-10/02-2023	*The scenario approach: data science for systems, control, and machine learning*	**Marco C. Campi,** *University of Brescia, Italy;* **Simone Garatti,** *Politecnico di Milano, Italy*
M02 – PARIS-SACLAY 13/02/2023-17/02/2023	*Multi-agent optimization and learning: resilient and adaptive solutions*	**Nicola Bastianello**, *KTH, Stockholm, Sweden;* **Ruggero Carli & Luca Schenato,** *Univ. di Padova, Italy*
M03 – SEVILLE 20/02/2023-24/02/2023	*Stabilization of PDEs: application on transport and parabolic equations*	**Swann Marx**, *CNRS, LS2N, Nantes, France*; **Christophe Prieur**, *CNRS, GIPSA-Lab, Grenoble, France*
M04 – PARIS-SACLAY 06/03/2023-10/03/2023	*Nonlinear and data-driven model predictive control*	**Frank Allgöwer,** *University of Stuttgart, Germany;* **Matthias A. Müller**, *Leibniz Univ. Hannover, Germany*
M05 – AACHEN 13/03/2023-17/03/2023	*Networked model predictive control for multi-agent decision-making*	**Bassam Alrifaee**, *RWTH Aachen University, Germany*
M06 – L'AQUILA 20/03/2023-24/03/2023	*Stability and stabilisation of time-varying systems, focus on formation and consensus control*	**Antonio Loria,** *CNRS, L2S, Paris-Saclay, France*
M07 – PARIS-SACLAY 27/03/2023-31/03/2023	*Constrained discrete optimal control on Lie groups*	**Debasish Chatterjee & Ravi Banavar**, *IIT Bombay, India*
M08 – LUCCA 27/03/2023-31/03/2023	*Hybrid control systems*	**Ricardo Sanfelice**, *Univ. of California at Santa Cruz, USA*
M09 – BERLIN 03/04/2023-07/04/2023	*Port-Hamiltonian systems and physics-based control*	**Arjan van der Schaft**, *Univ. of Groningen Netherlands;* **Dimitri Jeltsema,** *HAN University, Arnhem, Netherlands*
M10 – PARIS-SACLAY 11/04/2023-14/04/2023	*Time-delay and sampled-data systems*	**Emilia Fridman,** *Tel Aviv University, Israel;* **Pierdomenico Pepe,** *University of L'Aquila, Italy*
M11 – EINDHOVEN 17/04/2023-21/04/2023	*Static and dynamic optimisation*	**Alessandro Astolfi, Giordano Scarciotti & Thulasi Mylvaganam,** *Imperial College, London, UK*
M12 – PARIS-SACLAY 24/04/2023-28/04/2023	*Nonsmooth dynamical systems: analysis, applications, stability and control*	**Bernard Brogliato,** *INRIA, Grenoble, France;* **Aneel Tanwani,** *CNRS, LAAS, Toulouse, France*
M13 – SEVILLE 02/05/2023-05/05/2023	*LMIs for optimization and control*	**Didier Henrion,** *CNRS, LAAS, Toulouse, France*
M14 – PARIS-SACLAY 09/05/2023-12/05/2023	*Introduction to nonlinear systems & control*	**Hassan K. Khalil,** *Michigan State University, USA*
M15 – SEVILLE 15/05/2023-19/05/2023	*Explicit methods for the control and the estimation of systems modeled by partial differential equations*	**Arthur J. Krener,** *Naval Postgraduate School, Monterey, CA, USA;* **Miroslav Krstic,** *U. of California, San Diego, USA;* **Rafael Vazquez Valenzuela,** *U. of Seville, Spain*
M16 – ROME 22/05/2023-26/05/2023	*Control of soft and articulated elastic robots*	**Alessandro De Luca,** *Sapienza Università di Roma, Italy;* **Cosimo Della Santina,** *TU Delft, Netherlands*
M17 – DELFT 22/05/2023-26/05/2023	*Multi-agent control under spatiotemporal logic constraints*	**Lars Lindemann,** *University of Southern California, USA;* **Dimos Dimarogonas,** *KTH, Sweden*
M18 – LONDON 05/06/2023-09/06/2023	*Learning to control*	**Simone Formentin,** *Politecnico di Milano, Italy*
M19 – CAGLIARI 05/06/2023-09/06/2023	*An overview on observer design methods for nonlinear systems*	**Vincent Andrieu, & Daniele Astolfi,** *CNRS, Université de Lyon, France;* **Pauline Bernard,** *Mines ParisTech, France*
M20 – PARIS 12/06/2023-16/06/2023	*Dynamical modeling, estimation, and control of open quantum systems*	**Nina Amini**, *CNRS, L2S, Paris-Saclay, France;* **Pierre Rouchon,** *Mines ParisTech, France*
M21 – BOLOGNA 12/06/2023-16/06/2023	*Distributed optimization for cooperative robotics and decision making: theory, numerical methods and toolboxes*	**Giuseppe Notarstefano & Ivano Notarnicola**; *University of Bologna, Bologna, Italy*
M22 – ZURICH 26/06/2023-30/06/2023	*Learning-based predictive control*	**Melanie Zeilinger,** *ETH Zurich, Switzerland;* **Lorenzo Fagiano,** *Politecnico di Milano, Italy;* **Lukas Hewing,** *Sener Aerospace, Spain*
M23 – PARIS-SACLAY 26/06/2023-30/06/2023	*Output feedback stabilisation and regulation for nonlinear systems*	**Lorenzo Marconi & Michelangelo Bin,** *DEI - University of Bologna, Bologna, Italy*

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