

Independent Graduate Modules, one 21 hours module per week (3 ECTS)

Deadline for early registration: - to the modules M01 to M06: 16/01/2022

- to the modules M07 to M21: 28/03/2022

M01 – MILAN 31/01/2022-04/02/2022	<i>From Data to Decisions: the Scenario Approach (with Applications to Systems, Control and Machine Learning)</i>	Marco C. Campi, University of Brescia, Italy; Simone Garatti, Politecnico di Milano, Italy
M02 – BERLIN 21/02/2022-25/02/2022	<i>Control of multiphysics systems: theory and applications</i>	Arjan van der Schaft, Univ.Groningen Netherlands; Dimitri Jeltsema, HAN University, Arnhem, Netherlands
M03 – MONTERREY, MX 14/03/2022-18/03/2022	<i>Energy-Based Control Design to Face the Challenges of Future Power Systems</i>	Romeo Ortega, ITAM, Mexico; Johannes Schiffer, Brandenburg Univ. Tech., Germany
M04 – PARIS SACLAY 21/03/2022-25/03/2022	<i>Non asymptotic convergences: from concepts to stabilization and estimation</i>	Wilfrid Perruquetti, Ecole Centrale de Lille, France
M05 – L'AQUILA 28/03/2022-01/04/2022	<i>Stochastic Control and Dynamic Optimisation</i>	Giordano Scarciotti & Thulasi Mylvaganam, Imperial College, UK
M06 – PARIS SACLAY 04/04/2022-08/04/2022	<i>Equivariant Systems Theory and Observer Design for Autonomous Systems</i>	Robert Mahony & Jochen Trunpf, Australian Nat. Univ., Australia; Tarek Hamel, CNRS Sophia-Antipolis, France
M07 – PARIS SACLAY 11/04/2022-15/04/2022	<i>Analysis and Design Methods for Time-Delay Systems</i>	Wim Michiels, KU Leuven, Belgium ; Silviu-Iulian Niculescu, CNRS, Univ. Paris-Saclay, France
M08 – PARIS SACLAY 25/04/2022-29/04/2022	<i>Machine learning for automation of smart buildings and communication networks: theory and experimental applications</i>	Alessandro d'Innocenzo, University of L'Aquila, Italy
M09 – BOLOGNA 02/05/2022-06/05/2022	<i>An overview on observer design methods for nonlinear systems</i>	Vincent Andrieu & Daniele Astolfi, CNRS, Université de Lyon, France; Pauline Bernard, Mines ParisTech, France
M10 – PARIS SACLAY 02/05/2022-06/05/2022	<i>Predictive and Optimization Based Control for Automotive and Aerospace Applications</i>	Stefano Di Cairano, Mitsubishi Electric Res. Lab Boston, USA; Ilya Kolmanovsky, University of Michigan, USA
M11 – PARIS SACLAY 09/05/2022-13/05/2022	<i>Introduction to Nonlinear Systems & Control</i>	Hassan K. Khalil, Michigan State University, USA
M12 – TOULOUSE 16/05/2022-20/05/2022	<i>Sparsity and Big Data in Control, Systems Identification and Machine Learning</i>	Mario Sznajder, Northeastern Univ., USA
M13 – PARIS SACLAY 16/05/2022-20/05/2022	<i>Robust Controllability of Uncertain Systems</i>	Vladimir Turetsky & Valery Y. Glizer, ORT Braude College, Karmiel, Israel
M14 – PARIS SACLAY 30/05/2022-03/06/2022	<i>Lyapunov Based Design of Sliding Mode Controllers</i>	Jaime Moreno & Leonid Fridman, UNAM, Mexico
M15 – STOCKHOLM 30/05/2022-03/06/2022	<i>Formal Methods in Control Design - from Discrete Synthesis to Continuous Controllers</i>	Calin A. Belta, Boston University, USA; Antoine Girard, CNRS, Univ. Paris-Saclay, France
M16 – PARIS SACLAY 07/06/2022-10/06/2022	<i>Dynamics and Algorithms on Networks</i>	Julien Hendrickx, UC Louvain, Belgium; Alex Olshevsky, Boston University, USA
M17 – MARSEILLE 13/06/2022-17/06/2022	<i>Introduction to Discrete Event Systems</i>	Stephane Lafortune, University of Michigan, USA; Christos Cassandras, Boston University, USA
M18 – BOULDER, USA 13/06/2022-17/06/2022	<i>Output feedback stabilisation and regulation for nonlinear systems</i>	Lorenzo Marconi, University of Bologna, Italy
M19 – STOCKHOLM 20/06/2022-23/06/2022	<i>Control and Optimization of Autonomous Power Systems</i>	Florian Dörfler & Saverio Bolognani, Swiss Federal Institute of Technology (ETHZ), Switzerland
M20 – HONG KONG 27/06/2022-01/07/2022	<i>Machine Learning, Optimization and Control</i>	Xiaoming Yuan, University of Hong Kong; Enrique Zuazua, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
M21 – ZURICH 11/07/2022-15/07/2022	<i>Learning-Based Predictive Control</i>	Melanie Zeilinger, ETH Zurich, Switzerland; Lorenzo Fagiano, Politecnico di Milano, Italy; Lukas Hewing, Sener Aerospace, Spain

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