# 2020
## International Graduate School on Control

**www.eeci-igsc.eu**

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

**Deadline for advance registration:**
- To the modules M01 to M09: 12/01/2020
- To the modules M10 to M25: 08/03/2020

<table>
<thead>
<tr>
<th>Module</th>
<th>Location</th>
<th>Title</th>
<th>Faculty Members</th>
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</table>
| M01    | MUMBAI   | From Data to Decisions: the Scenario Approach (Systems, Control, Machine Learning) | Marco C. Campi, University of Brescia, Italy  
Simone Garatti, Politecnico di Milano, Italy |
| M02    | SAN DIEGO | Control of PDEs and Nonlinear Delay Systems                           | Miroslav Krstic, Univ California, San Diego, USA |
| M03    | EINHOVEN | Networked Control of Multi-Agent Systems                              | Jan Lunze, Ruhr-University Bochum, Germany |
| M04    | PARIS-SACLAY | Extremum Seeking Control: Methods, Theory and Applications | Denis Dochain, Univ. Catholique de Louvain, Belgium  
Martin Guay, Queen’s University, Canada |
| M05    | PARIS-SACLAY | Modeling and Control of Nonlinear and Distributed Parameter Systems: the Port Hamiltonian Approach | Arjan van der Schaft, Univ. Groningen, Hans Zwart, Univ. Twente, Netherlands, Yann Le Gorrec, ES2M, France |
| M06    | PARIS-SACLAY | Introduction to Nonlinear Systems & Control                         | Hassan K. Khalil, Michigan State University, USA |
| M07    | ISTANBUL  | Specification, Design, and Verification of Self-Driving Cars         | Richard M. Murray, Caltech, Pasadena, USA  
& Nok Wongpiromsarn, nutomony, Singapore |
| M08    | PARIS-SACLAY | Cyber-Physical and data-driven Systems: Algebraic and Optimization techniques | Raphaël Jungers, Univ. Catholique de Louvain, Belgium |
| M09    | MONTERREY | Energy-Based Control Design to Face the Challenges of Future Power Systems | Romeo Ortega, CNRS L2S, Univ. Paris-Saclay, France  
Johannes Schiffer, Brandenburg Univ. Tech., Germany |
| M10    | PARIS-SACLAY | Model Predictive Control                                               | Eduardo F. Camacho, University of Seville, Spain |
| M11    | STOCKHOLM | Control and Optimization of Autonomous Power Systems                  | Florian Dörfler & Saverio Bolognani,  
Swiss Federal Institute of Technology (ETHZ), Switzerland |
| M12    | SINGAPORE | An Introduction to Financial Markets for the Uninitiated: New Research Directions for Engineers | B. Ross Barmish, University of Wisconsin, Madison, USA  
Napat Rujireapaboon, National University of Singapore |
| M13    | PADOVA   | Distributed Computation and Control                                   | A. Stephen Morse, Yale University, USA |
| M14    | LONDON   | Computational Issues in Nonlinear Control and Estimation              | Arthur Krener,  
Naval Postgraduate School, Monterey CA, USA |
| M15    | ISTANBUL | Stability and Stabilisation of Nonlinear Time-Varying Systems: Applications to Multi-Agent systems | Elena Panteley & Antonio Loria,  
CNRS L2S, Paris-Saclay, France |
| M16    | MUMBAI   | Homogeneity Based Design of Sliding Mode Controllers                  | Leonid Fridman & Jaime Alberto Moreno Pérez, UNAM,  
Mexico, Bijan Bandyopadhyay, IITB, Bombay, India |
| M17    | TOULOUSE | Sparsity and Big Data in Control, Systems Identification and Machine Learning | Mario Sznai, Northeastern Univ, MA, USA |
| M18    | SHANGHAI | Hybrid Control Design                                                  | Ricardo G. Sanfelice,  
University of California at Santa Cruz, California, USA |
| M19    | PARIS-SACLAY | Time-Delay and Sampled-Data Systems                                   | Emilia Fridman, Tel Aviv University, Israel  
Pierdomenico Pepe, University of L’Aquila, Italy |
| M20    | LAUSANNE | Decentralized and Distributed Control                                  | Giancarlo Ferrari-Trecate, EPFL, Switzerland  
Marcello Farina, Politecnico di Milano, Italy |
| M21    | MARSEILLE | Introduction to Discrete Event Systems                                | Stephane Lafortune, University of Michigan, USA  
Christos Cassandras, Boston University, USA |
| M22    | LONDON   | Introduction to Optimal and Stochastic Control                       | Alessandro Astolfi & Giordano Scaricciotti,  
Imperial College, London, UK |
| M23    | ROME     | Dynamic Control Allocation                                            | Andrea Serrani, Ohio State University, USA  
Sergio Galeani & Mario Sassano Univ. Rome "Tor Vergata", IT |
| M24    | PRAGUE   | LMIs for Optimization and Control                                     | Didier Henrion,  
CNRS LAAS, University of Toulouse, France |
| M25    | BERLIN   | Robust and Adaptive Output Regulation of Multivariable and Hybrid Systems | Alberto Isidori, Sapienza Università di Roma, Italy  
Lorenzo Marconi, Università di Bologna, Italy |

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