

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

Early Registration Deadline for ONLINE Modules : 1 month before the module

M01 — ONLINE 01/02/2021-05/02/2021	<i>Learning-Based Predictive Control</i>	Melanie Zeilinger, <i>ETH Zurich, Switzerland</i> ; Lorenzo Fagiano, <i>Politecnico di Milano, Italy</i> ; Lukas Hewing, <i>ETH Zurich, Switzerland</i>
M02 — ONLINE 08/02/2021-12/02/2021	<i>From Data to Decisions: the Scenario Approach (with Applications to Systems, Control and Machine Learning)</i>	Marco C. Campi, <i>University of Brescia, Italy</i> ; Simone Garatti, <i>Politecnico di Milano, Italy</i>
M03 — ONLINE 17/05/2021-21/05/2021	<i>Nonsmooth Dynamical Systems: Analysis, Applications, Stability and Control</i>	Bernard Brogliato, <i>INRIA, Grenoble, France</i> ; Aneel Tanwani, <i>CNRS LAAS, Toulouse, France</i>
M04 — ONLINE 08/03/2021-12/03/2021	<i>Model-Based Fault Diagnosis - a Linear Synthesis Framework using MATLAB</i>	Andreas Varga, <i>Gilching, Germany</i> ; Daniel Ossmann, <i>Univ. of Applied Sciences, Munich, Germany</i>
M05 — ONLINE 15/03/2021-19/03/2021	<i>Networked Model Predictive Control for Multi-Vehicle Decision-Making</i>	Bassam Allrifaee, <i>RWTH Aachen University, Germany</i>
M06 — MONTERREY, MX Postponed to 2022	<i>Energy-Based Control Design to Face the Challenges of Future Power Systems</i>	Romeo Ortega, <i>ITAM, Mexico</i> ; Johannes Schiffer, <i>Brandenburg Univ. Tech., Germany</i>
M07 — CANCELLED	<i>Stochastic Models in Systems & Synthetic Biology</i>	Alessandro Borri, <i>CNR-IASI Biomathematics Lab, Rome, Italy</i> ; Pasquale Palumbo, <i>University of Milano-Bicocca, Italy</i> ; Abhyudai Singh, <i>University of Delaware, USA</i>
M08 — PARIS/ONLINE Postponed to 2022	<i>Equivariant Systems Theory and Observer Design for Autonomous Systems</i>	Robert Mahony & Jochen Trumpf, <i>Australian Nat. Univ., Australia</i> ; Tarek Hamel, <i>CNRS Sophia-Antipolis, France</i>
M09 — ONLINE 19/04/2021-23/04/2021	<i>Constrained Discrete Optimal Control on Lie Groups</i>	Debasish Chatterjee & Ravi Banavar, <i>IIT Bombay, India</i>
M10 — ONLINE 26/04/2021-30/04/2021	<i>LMI for Optimization and Control</i>	Didier Henrion, <i>CNRS LAAS, Toulouse, France</i>
M11 — ONLINE 03/05/2021-07/05/2021	<i>Learning to Control</i>	Simone Formentin, <i>Politecnico di Milano, Italy</i>
M12 — TOULOUSE Postponed to 2022	<i>Sparsity and Big Data in Control, Systems Identification and Machine Learning</i>	Mario Sznaier, <i>Northeastern Univ., USA</i>
M13 — STOCKHOLM Postponed to 2022	<i>Formal Methods in Control Design - from Discrete Synthesis to Continuous Controllers</i>	Calin A. Belta, <i>Boston University, USA</i> ; Antoine Girard, <i>CNRS L2S, Univ. Paris-Saclay, France</i>
M14 — ONLINE 24/05/2021-28/05/2021	<i>High-Gain Observers in Nonlinear Feedback Control</i>	Hassan K. Khalil, <i>Michigan State University, USA</i>
M15 — CANCELLED	<i>Dynamics and Algorithms on Networks</i>	Julien Hendrickx, <i>UC Louvain, Belgium</i> ; Alex Olshevsky, <i>Boston University, USA</i>
M16 — ONLINE 07/06/2021-11/06/2021	<i>Multi-Agent Distributed Optimization and Learning over Wireless Networks</i>	Luca Schenato & Ruggero Carli, <i>Università di Padova, Italy</i>
M17 — MARSEILLE Postponed to 2022	<i>Introduction to Discrete Event Systems</i>	Stephane Lafortune, <i>University of Michigan, USA</i> ; Christos Cassandras, <i>Boston University, USA</i>
M18 — PARIS-SACLAY Postponed to 2022	<i>Predictive and Optimization Based Control for Automotive and Aerospace Applications</i>	Stefano Di Cairano, <i>Mitsubishi Res. Lab Boston, USA</i> ; Ilya Kolmanovskiy, <i>University of Michigan, USA</i>
M19 — ONLINE 21/06/2021-25/06/2021	<i>Neuromorphic Control Principles</i>	Guillaume Drion, <i>Univ. Liège, Belgium</i> ; Alessio Franci, <i>UNAM, Mexico</i> ; Rodolphe Sepulchre, <i>Univ. Cambridge, UK</i>
M20 — HONG-KONG Postponed to 2022	<i>Optimization and Machine Learning in Control</i>	Xiaoming Yuan, <i>University of Hong Kong</i> ; Enrique Zuazua, <i>Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany</i>
M21 — ONLINE 28/06/2021-02/07/2021	<i>Hybrid Control Design</i>	Ricardo Sanfelice, <i>University of California at Santa Cruz, USA</i>
M22 — ONLINE 05/07/2021-09/07/2021	<i>Dynamic Control Allocation</i>	Sergio Galeani & Mario Sassano, <i>Univ. Rome "Tor Vergata", Italy</i> ; Andrea Serrani, <i>Ohio State University, USA</i>

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