



gipsa-lab



# DATA and LEARNING for CONTROL

## 42nd International Summer School of Automatic Control

Grenoble, France, September 6-10, 2021

<http://www.gipsa-lab.fr/summerschool/auto2021>

Organizers:           Mirko FIACCHINI (CNRS, GIPSA-lab, Grenoble, France)  
                          Paolo FRASCA (CNRS, GIPSA-lab, Grenoble, France)

### Confirmed Speakers & Lectures:

**Mazen ALAMIR** (CNRS, Grenoble): *Learning against uncertainties*

**Teodoro ALAMO** (Seville, Spain): *Uncertainty quantification for kernel predictive models*

**Lucian BUSONIU** (TU Cluj-Napoca, Romania): *Reinforcement learning: Introduction to the basics and application to a communicating mobile robot*

**Claudio DE PERSIS** (Groningen, NL): *Learning control from data: linear and nonlinear systems*

**Milan KORDA** (CNRS, Toulouse, France): *Introduction to the Koopman operator approach for data-driven analysis and control of nonlinear systems*

**Fabio PASQUALETTI** (UC Riverside, USA): *Performance and robustness guarantees for data-driven control of complex networks*

**Melanie ZEILINGER** (ETH Zurich, CH): *Safety filters for learning-based control*

**Organization:** The School, taught in English, will consist of a series of lectures and exercise sessions. Due to the travel restrictions imposed by the Covid-19 pandemics, this year the School will be proposed as a **virtual event** to all participants outside Grenoble. Connection information will be sent to all registered participants.

**Audience:** The School is mainly intended for PhD students and researchers from academia or industry with an interest in control, learning, or both. Some background in automatic control is expected.

**Registration information will be posted on the school's webpage (deadline: July 15, 2021)**

**Registration Fees: FREE**

