

21st IFAC Symposium on System Identification:

Learning Models for Decision and Control SysID 2027

July 7-9, 2027, Lyon, France



Scope

The IFAC Symposium on System Identification is the flagship event of TC 1.1, first launched in Prague in 1967. The 2027 edition — its 21st — will continue this tradition, focusing on the latest advances in system identification, machine learning for decision-making and control of dynamical processes, experimental modeling, signal processing, adaptive control, and reinforcement learning. The symposium welcomes both theoretical and applied research across a wide range of fields. To strengthen its industrial relevance, active participation from industry professionals is especially encouraged. Relevant topics for the symposium program include but are not limited to:

- Identification of linear, nonlinear, time varying, hybrid and distributed systems
- Black-box modeling (neural networks, kernel-based approaches, support vector machines,...)
- Machine learning, data mining and Bayesian approaches
- Linear and nonlinear time series analysis
- State estimation and parameter tracking, parameter estimation and inverse problems
- Identification for control, adaptive control, data-based controller tuning, reinforcement learning
- Identifiability, statistical analysis and uncertainty characterization
- Experiment design and Model validation
- Identification and estimation in data rich (big data) and networked environments
- Monitoring and fault detection Applications

Call for Paper Submission

Regular and
Invited session
papers

Open Invited
Track papers

Tutorial
papers

Discussion &
Dissemination
papers

Joint conference/journal submission papers

Authors are invited to take advantage of a special opportunity to have their paper considered for publication in *IFAC Journal of Systems and Control* in parallel with the Symposium presentation. Papers submitted for this "Journal Option" will benefit from an expedited review and, if accepted, will be published promptly in a dedicated special issue of the journal.

To participate, the manuscript should present journal-quality research contribution.

International Program Committee

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Important Dates (Deadlines)

Submission site opens	Jun. 01, 2026
Joint journal/conference submission papers	Oct. 01, 2026
Invited session, Open Invited Track & Tutorial proposals	Oct. 01, 2026
Regular, Invited, Tutorial & Open Invited Track papers	Nov. 02, 2026
Dissemination & Discussion papers	Jan. 15, 2027

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