

# [EUROSIM 2019](#)

LA RIOJA (SPAIN), JULY 1ST-5TH

10<sup>th</sup> Congress of the Federation of European Simulation Societies

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## **Trends and Perspectives of Machine Learning in Automation**

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Over the past two decades, an explosion of data is emerging from the physical world and it requires a rapprochement of areas such as machine learning, control theory, and optimization. Interest in Machine Learning methodologies has been increasing exponentially. The objective of this special session is to focus on the inter-connection between Machine Learning and a broad and important discipline – System Engineering and Automatic Control. The intersection of these domains has the potential for very interesting and challenging research.

The goal of this special session is to understand the aforementioned intersections between ML and automation. In particular, the main two special session goals are:

- Present state-of-the-art results in the theory and application of ML in system engineering, automatic control, and automation in general, including topics such as statistical learning, reinforcement learning and deep neural networks, evolutionary strategies, adaptive control, online learning, active learning, model learning, identification, etc
- Real applications of ML in different automatic related fields such as system modelling and identification, robotics, artificial vision, intelligent control, bio-engineering, intelligent transport, among others

This special session will facilitate intensive discussion and exchange of ideas about ongoing and future research related to how machine learning theory can be applied to real automation problems.

### **Important dates:**

Submission deadline	10th June 2019
Acceptance deadline	15th June 2019
Final submission deadline	20th June 2019
Conference	1-5 July 2019

### **Chairs:**

- Matilde Santos, University Complutense of Madrid, Spain, [msantos@ucm.es](mailto:msantos@ucm.es)
- Juan G. Victores, University Carlos III of Madrid, Spain, [jcgvicto@ing.uc3m.es](mailto:jcgvicto@ing.uc3m.es)
- Gonzalo A. Farias, Pontificia Universidad Católica de Valparaíso, Chile, [gonzalo.farias@pucv.cl](mailto:gonzalo.farias@pucv.cl)

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**Paper Submission:** <https://easychair.org/conferences/?conf=eurosim2019>

(When submitting a paper, mark the corresponding special session)