

## Special Issue

# Modeling and Simulation of Complex Networks for Automation in Systems Engineering

### Message from the Guest Editors

This Special Issue on “Modeling and Simulation of Complex Networks for Automation in Systems Engineering” aims to present novel advances on methodologies to improve the development and use of a complexity science framework for automated digital management of industry and infrastructure systems. The scope of this Special Issue includes (but is not limited to):

- Complexity science for systems engineering.
- Dynamics on networks and dynamics of networks.
- Decision-making support in complex systems.
- Diffusion processes and dynamics in complex networks.
- Swarm intelligence applications in networked systems.
- Intelligent infrastructure and asset management.
- Approaches and bounded strategies for learning in multi-agent systems at different scales.
- Multi-agent learning solutions for near-real time decision making.
- Automation in complex systems.
- Graph signal processing in engineering systems operations and management.
- Graph machine learning and graph neural networks models in systems operations and management.
- Sustainable supply chain management.

### Guest Editors

Dr. Silvia Carpitella

Dr. Manuel Herrera

Dr. Bruno Melo Brentan

Prof. Dr. Joaquín Izquierdo

### Deadline for manuscript submissions

30 September 2025



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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