

🌐 Spain 📅 May 26-29, 2025

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CONFERENCE WEBSITE: <https://annsim.org/>

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## | About the Conference

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Theory and Foundations For Modeling & Simulation Track (TMS)

As part of the SCS Annual Simulation Conference (ANNSIM 2025)

<https://annsim.org/>

May 26-29, 2025

Complutense University of Madrid, Spain

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Aims and Scope:

The TMS Track serves as a dynamic platform for showcasing the latest advancements in the Theory and Foundations of Modeling and Simulation.

Emphasizing the breadth of concepts, methodologies, practices, and toolkits in the field, the TMS Track invites submissions of unpublished papers that explore these topics and beyond, aiming to enrich and expand the theoretical and foundational aspects of Modeling and Simulation. This initiative seeks contributions that enhance our understanding and development of systems in

### Important Dates

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the fields of networks and computers, cyber-physical systems, applications in nature (physics, chemistry, biology), as well as social applications.

Accepted papers will be submitted to \*the appropriate\* Digital Libraries for archiving and will be indexed in DBLP and SCOPUS databases

Selected topics include:

Modeling & Simulation Formalisms (Actors, DEVS, Petri nets, Statecharts, etc.)

Multi-formalism Modeling, Hybrid Modeling

Languages, Multi-Modal Modeling

Multi-Resolution/Multi-Scale Modeling, Multi-Paradigm/Multi-Domain Modeling

Model Checking, Formalism-Based Model

Debugging, Model Transformation

Parallel, Distributed, Real-Time, Cloud-Based, and Interactive Simulation

Modular Hybrid, Spatially Distributed, and Ultra Large-Scale Systems

Co-simulation, Interoperability, Simulation

Languages, Numerical Solvers

Embedded, IoT, and Fog Computing Modeling and Simulation Software

Theory for Modeling Cyber-Physical Systems and Digital Twins

Theory and Methodologies for Business Process

M&S (Human-in-the-loop, resources modeling, processes optimization, etc.)

Model Development and Simulation Visualization Tools

Model Libraries, Repositories, and Data Formats

Data-driven simulation inferencing and learning

Important Dates:

Paper submission deadline: Jan 19, 2025

Acceptance notification: March 7, 2025

Camera-ready version March: 26, 2025

Conference Program Announced: April 9, 2025

Track Chairs:

Gabriel Wainer, Carleton University, Ottawa,  
Canada, gwainer@sce.carleton.ca

Paolo Bocciarelli, University of Rome Tor Vergata,  
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