

MAY 20 - MAY 23, 2024

American University, Washington D.C., USA



The **2024 Annual Modeling and Simulation Conference (ANNSIM'24)** is the annual flagship conference sponsored by The Society for Modeling and Simulation International (SCS), which covers state-of-the-art developments in Modeling & Simulation (M&S). ANNSIM'24 invites original contributions to the theory, methodology, and practice of modeling and simulation in any scientific or engineering discipline. The following is the Call for Paper for one specific track. All tracks are listed at <https://scs.org/annsim/>

Track on Machine Learning and AI (ML/AI)

Chairs: Jose J. Padilla, Old Dominion University, USA & Brandon Haworth, University of Victoria, Canada

Artificial Intelligence has fundamentally changed how we conduct our business, research, teaching, and even shopping, among other activities, often through the automation of routine tasks and the mediation of human/machine interactions. In the age of Large Language Models, there is a focus on generative models of AI and their impact on human labour. However, both generative and non-generative AI are increasingly and consistently being incorporated into the many facets of research practice and outcomes. As the M&S community moves forward, we need to consider not only the technical but also the methodological and ethical challenges when integrating AI into our research. This includes how ML/AI methods can expand M&S theory and practice and how M&S can be a key component in the advancement of ML/AI.

The Machine Learning and Artificial Intelligence (ML/AI) track seeks to engage scholars, across domains, on discussing the ML/AI and M&S synergy: from the philosophical to the technical, from the theoretical to the empirical.

The topics of interest include, but are not limited to, the following:

- AI-mediated M&S and M&S-mediated AI
- Generative AI and the design and development of models
- Generative AI and the interpretation of models
- M&S generated data and ML training
- M&S and ML/AI towards improving interdisciplinary research

We are looking for new thoughts and experiences that can set the pace for ML/AI and M&S research for the next five years.

SUBMISSIONS

Original, high-quality **technical papers** are solicited for peer review, presentation, and subsequent publication in the conference proceedings if accepted. Technical papers are max 12 pages long with single column format. **Tutorials** and **Ph.D. Colloquium** submissions are 2 pages long. Please visit the Author Kit page to use the templates and review detailed guidance on the content: <https://scs.org/authorskit>.

ORGANIZING COMMITTEE

General chair: Philippe Giabbanelli (Miami U., USA). Vice General Chair: Istvan David (McMaster U., Canada). Program Chair: Cristina Ruiz-Martin (Carleton U., Canada). Proceedings co-chairs: Román Cárdenas (Universidad Politécnica de Madrid, Spain) & Bentley Oakes (Polytechnique Montreal, Canada). For any question, please contact the general chair at gjabbapj@miamioh.edu

Important dates

Paper Submission
Jan 14th, 2024

Acceptance Notification
March 1st, 2024

Camera-ready Submission
March 20th, 2024

Conference Program
April 3rd, 2024