

SPRINGSIM'20

2020 Spring Simulation Conference

AIMS AND SCOPE

With the availability and ubiquity of big data and the advance of computing power, artificial intelligence (AI) and machine learning (ML) have been permeating our society in various forms. Many tasks and fields recently considered to be impossible to automate due to their complexity have been gradually taken over by AI and ML. Research on modeling and simulation (M&S) can take advantage of AI and ML advance modeling, validation, and verification, optimization, experimentation, and decision-making. The **AI and Simulation (AIS) Track** aims to provide a forum for participants to exchange their views, ideas, research methods, and applications to resolve the scientific question of what and how cutting-edge AI and ML methods can contribute to modeling and simulation and vice versa. This track explores M&S practices to which AI and ML methods are applied such as knowledge reasoning, computer vision, natural language processing, deep learning, and reinforcement learning. Topics of interest include, but are not limited to:

- Using simulation to improve AI and ML solutions
- Integration of AI in simulation
- AI and ML methods for training and evolving agents
- Simulation modeling tools and methods based on AI and ML
- Simulation optimization using AI and ML
- Advancing validation and verification (V&V) using AI and ML
- Facilitating experimentation using AI and ML
- Empirical comparisons of AI and ML methods in M&S