

Simulation and AI in Automation (Code:2j94k)

Goal:

Simulation is an important area in Automation and many disciplines, and it has many advantages in analyzing the performance of complex stochastic models. Over the last 15 years, AI has been gaining steam and fundamentally reshaped a number of current and emerging areas. Simulation plays a central role in deep learning and reinforcement learning, which are the foundation of AI, and it can continue improving the AI techniques, particularly in addressing some of its bottlenecks. AI techniques have also contributed to recent advances of simulation research.

We propose to organize a special session on Simulation and AI in the upcoming CASE2023. This session is devoted to discussing new opportunities and challenges for the two areas. This track invites papers and presentations about state-of-the-art research at the intersection of simulation and AI.

Topics:

Potential topics include, but are not limited to

- Simulation-based AI
- AI-boosted simulation modeling and optimization
- Applications of simulation-AI interface

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