

Special Issue

Reinforcement Learning for Decision-Making in Intelligent Systems

Message from the Guest Editors

Intelligent decision-making systems are becoming ubiquitous as both software and hardware are becoming more sophisticated. However, due to the large amount of data generated by modern systems, traditional decision-making approaches fail to function accordingly, since the state-spaces become too vast to allow for analytical analysis. Reinforcement learning is a machine learning approach that, unlike supervised/unsupervised learning, involves autonomous agents that, through sequential decision-making, learn optimal policies that allow them to navigate their environment by maximizing cumulative rewards. This Special Issue aims to gather cutting-edge research papers in applied, scalable reinforcement learning for smart, autonomous decision-making of intelligent systems such as fleets of autonomous vehicles, energy systems, network optimization or other related areas. We welcome original research articles, review and survey papers and innovative case studies that focus on reinforcement learning algorithms, intelligent systems, autonomous decision-making, digital twins and smart manufacturing. Papers in other domains such as finance or medicine will also be considered.

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Deadline for manuscript submissions

20 January 2027



Applied System Innovation

an Open Access Journal
Published by MDPI

Impact Factor 3.4
CiteScore 9.0



mdpi.com/si/282029

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Editor-in-Chief

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