Special Issue

Reinforcement Learning: Emerging Techniques and Future Prospects

Message from the Guest Editors

This Special Issue aims to provide a platform to present the latest advancements in reinforcement learning. We especially welcome contributions that explore novel algorithms, frameworks, and system designs that address key limitations in current RL approaches, as well as emerging trends such as offline RL, safe RL, multi-agent RL, and federated or privacy-preserving RL. Interdisciplinary works that integrate RL with areas like digital twin, network optimization, edge computing, and intelligent sensing are particularly encouraged. Topics of interest include, but are not limited to, the following:

- Deep reinforcement learning and its theoretical analysis;
- Model-based and model-free RL algorithms;
- Multi-agent reinforcement learning and coordination;
- RL in wireless networks, edge/cloud systems, and IoT;
- Sample-efficient, robust, or safe RL approaches;
- Federated RL and privacy-preserving learning;
- RL applications in robotics.

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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