

Special Issue

Reinforcement Learning in Dynamic Control and Robotic Autonomy

Message from the Guest Editors

- Robotics autonomy: Motion planning, navigation, and task coordination for UAVs, UGVs, and UUVs; Multi-agent RL for collaborative missions (e.g., swarm robotics); Dynamic system control; Stability-guaranteed RL for the nonlinear/adaptive control of robotic systems; Real-time RL in safety-critical applications (e.g., agile UAV maneuvers).
- Perception-action integration: RL with sensor fusion (LiDAR, vision, IMU et al.) for robust perception; End-to-end RL for environment-aware control.
- Topics of interest include, but are not limited to, the following:

RL for robotic motion planning and trajectory optimization; Adaptive RL control under model uncertainties; Distributed RL for multi-robot task allocation; RL-based navigation in dynamic environments; Sensor-fused RL for state estimation; Stability/robustness guarantees in RL-control systems; Transfer learning for cross-domain deployment; Real-time RL on embedded platforms.

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

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