

Special Issue

Embodied Control Theory and Engineering for Autonomous Unmanned Systems

Message from the Guest Editors

This Special Issue explores how the physical properties of autonomous unmanned systems can be leveraged to simplify control laws, enhance resilience, and enable complex behaviors in unpredictable real-world scenarios. This approach is essential for the next generation of unmanned systems operating in high-uncertainty, unstructured, and dynamic environments. Topics of interest include, but are not limited to, the following:

- Embodied intelligence and active, interactive planning and control.
- Control-aware embodied perception and state estimation.
- Decision-making and planning under control and safety constraints.
- Learning-enabled embodied control.
- Safety-critical and resilient embodied control architectures.
- Embodied multi-agent control and cooperation.
- Hierarchical and modular architectures for embodied intelligent control.
- Benchmarking, evaluation, and real-world validation of embodied control.

Guest Editors

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Deadline for manuscript submissions

30 September 2026



Drones

an Open Access Journal
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Impact Factor 4.8
CiteScore 7.4



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Message from the Editor-in-Chief

Drones is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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