



## **Advances in AI-Enabled Applications for Robotics and Autonomous Systems**

Guest Editors:

**Dr. Wilfried Yves Hamilton  
Adoni**

**Dr. Moez Krichen**

**Dr. Jamal Berrich**

Deadline for manuscript  
submissions:

**31 December 2024**

### **Message from the Guest Editors**

Dear Colleagues,

With the rapid advancements in artificial intelligence (AI) and drone technologies, there has been a growing interest in exploring their synergistic potential across various domains. To foster the exchange of knowledge and advancements in this exciting field, we are pleased to announce a Special Issue dedicated to the exploration of AI and drones.

Topics of interest for this Special Issue encompass, but are not limited to:

- Autonomous drone navigation and control using AI techniques;
- AI-based object detection, recognition, and tracking for drones;
- Swarm intelligence and collective behavior of AI-powered drones;
- AI-driven decision-making and mission planning in drone applications;
- Sensor fusion and data integration techniques for drone-based AI systems;
- AI-enabled drone applications in agriculture, environmental monitoring, and forestry;
- Human-drone interaction/collaboration in AI-enabled drone systems;
- Edge computing and distributed AI for real-time drone applications.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Antonio J. Marques  
Cardoso**

CISE—Electromechatronic  
Systems Research Centre,  
University of Beira Interior,  
Calçada Fonte do Lameiro, P-  
6201-001 Covilhã, Portugal

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

## Contact Us

---

*Machines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/machines](http://mdpi.com/journal/machines)  
[machines@mdpi.com](mailto:machines@mdpi.com)  
[X@Machines\\_MDPI](https://twitter.com/Machines_MDPI)