



## Multi-robot Systems: State of the Art and Future Progress

Guest Editor:

**Dr. Eugene Kagan**

Department of Industrial  
Engineering and Management,  
Ariel University, Ariel 4076414,  
Israel

Deadline for manuscript  
submissions:

**closed (30 June 2024)**

### Message from the Guest Editor

Dear Colleagues,

On behalf of my colleagues and myself, I cordially invite you to share the results of your research in the Special Issue “Multi-Robot Systems: State of the Art and Future Progress” of the MDPI’s *Robotics* Journal.

The studies of multi-robot systems are a part of general research of multi-agent systems with specific stress on sensing environmental states and acting in static and dynamic environments. These studies include a wide range of themes: robotic production lines, communication and information fusion, decision making, division of labor, navigation of mobile robots, and swarm dynamics.

Together with the undoubted success in the field of multi-robot systems, each new result gives rise to additional questions, from practical optimization of the robot activity in the group to general questions about the limits of individual rationality in the collective behavior.

The Special Issue aims to present recent results in the field of multi-robot systems and to discuss the broader themes concerning the collective activity of automatic systems acting in a dynamic environment.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Marco Ceccarelli

LARM2: Laboratory of Robot  
Mechatronics, Department of  
Industrial Engineering, University  
of Rome Tor Vergata, Via del  
Politecnico 1, 00133 Roma, Italy

## Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

## Author Benefits

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

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

**Journal Rank:** JCR - Q2 (*Robotics*) / CiteScore - Q1 (Mechanical Engineering)

## Contact Us

---

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

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

[mdpi.com/journal/robotics](http://mdpi.com/journal/robotics)  
[robotics@mdpi.com](mailto:robotics@mdpi.com)  
[X@RoboticsMDPI](https://twitter.com/RoboticsMDPI)