

## Special Issue

# Bio-Inspired Robot and Multirobot Systems

### Message from the Guest Editor

Dear Colleague, The design of robots of all shapes and sizes is inspired by the ability of animals to move effectively in their environment. Recent years have seen an increasing interest in nature-inspired modeling for solving complex computational problems; recent work shows strong potential in creating artificial systems that mimic insect behavior for solving complex coordination tasks. These insects have evolved over a long time and display unusual behaviors that are highly suitable for addressing complex tasks. The insect-inspired multiagent research applying these techniques to robotic systems is motivated by a wide range of application areas, such as surveillance and patrolling, exploration and identification of hazardous environments, space exploration, etc. Though easy to simulate, artificial pheromones are hard to bring into real-life robotic applications. This Special Issue will be of interest mainly to scientists, researchers, and students working in bio-inspired robotics and multirobot systems. Still, it can also be interesting to other readers interested in the more general areas of robotics and control.

---

### Guest Editor

Prof. Dr. Nuno Miguel Fonseca Ferreira

Department of Electrical Engineering, Polytechnic of Coimbra, P-3004  
516 Coimbra, Portugal

---

### Deadline for manuscript submissions

closed (25 August 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/48783](https://mdpi.com/si/48783)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls](https://appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )