

## Special Issue

# AI-Based Methods for Object Detection and Path Planning

### Message from the Guest Editor

With the advent of advanced technology, artificial intelligence (AI) is being widely used across various domains, with significant applications in object detection and path planning, including warehousing logistics, urban transportation, military operations, automatic driving, robotics, and drones. Through the integration of advanced AI technologies, including reinforcement learning, graph neural networks, multi-agent systems, and large language models, these methods significantly enhance the accuracy, efficiency, and adaptability of object detection and path planning in complex environments.

---

### Guest Editor

Prof. Dr. Ping Lou

School of Information, Wuhan University of Technology, Wuhan  
430070, China

---

### Deadline for manuscript submissions

20 August 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/209936](https://mdpi.com/si/209936)

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

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

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





# 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 )