

## Special Issue

# AI-Aided Intelligent Vehicle Positioning in Urban Areas

### Message from the Guest Editors

This Special Issue aims to explore the application of AI-driven methodologies to address these challenges and advance intelligent vehicle positioning in urban areas.

We invite contributions that focus on leveraging AI technologies to overcome the limitations of traditional approaches and enhance positioning accuracy, even in the most challenging urban environments. Topics of interest include, but are not limited to, the following:

- AI-driven algorithms for vehicle positioning and navigation.
- Integration of AI with GNSS, high-definition mapping, and sensor fusion technologies.
- Applications of AI in autonomous driving and smart city infrastructure.
- Case studies showcasing practical implementations of AI-aided positioning systems in urban environments.

---

### Guest Editors

Dr. Xiwei Bai

Department of Aeronautical and Aviation Engineering, The Hong Kong Polytechnic University, Hong Kong, China

Dr. Yingying Wang

Department of Aeronautical and Aviation Engineering, The Hong Kong Polytechnic University, Hong Kong, China

---

### Deadline for manuscript submissions

20 September 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/231682](https://mdpi.com/si/231682)

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

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

[applsoci](https://applsoci)





# 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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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