

## Special Issue

# Advanced 2D/3D Computer Vision Technology and Applications

### Message from the Guest Editor

In recent years, we have witnessed many great computer vision techniques that have been developed and successfully applied in real applications thanks to the great advances in deep learning theory and its implementations. This Special Issue aims to collect submissions about advanced 2D/3D techniques in computer vision and their applications in different fields. The topics include, but are not limited to, the following areas:

- Object detection and tracking in public traffic;
- Human pose/action prediction/analysis for behavior analysis;
- Video parsing for anomaly detection;
- Three-dimensional reconstruction by SLAM/SfM/NeRF;
- Computer vision technology in biomedical engineering;
- Computer vision methods for indoor scene understanding;
- Low-level image parsing and analysis with modern deep models;
- Deep networks for auto-driving;
- Vision applications in human face editing and image style transfer;
- New trends in AIGC (artificial intelligence-generated content).

---

### Guest Editor

Dr. Yongwei Nie

School of Computer Science and Engineering, South China University of Technology, Guangzhou, China

---

### Deadline for manuscript submissions

closed (20 December 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/177502](https://mdpi.com/si/177502)

*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.com)





# 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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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