

## Special Issue

# Applications, Challenges and Promises of Computer Vision and Digital Imaging Processing

### Message from the Guest Editors

Computer vision has recently experienced a significant increase in its overall adoption, ranging from facial recognition used in smartphones to navigation in self-driving vehicles. Part of this success can be attributed to the integration of techniques from other areas such as Artificial Intelligence (AI) within the field of Image Processing. Real-world applications demand new ideas and techniques that solve practical problems. Consequently, this Special Issue is intended to present innovative solutions in this field, from their conception and analysis to their implementation. Topics of interest for this Special Issue include but are not limited to the following:

- Low-Level Vision Techniques
- Detection, Recognition, Classification and Localization in 2D/3D
- Shape estimation
- 3D and Multiview processing and sensors
- Motion and Tracking
- Image and Video Understanding
- Image/Video Synthesis and Generative Models
- Integration of AI techniques

---

### Guest Editors

Dr. Manuel Jesús Rodríguez Valido

Dr. Fernando Perez Nava

Prof. Dr. Gustavo Sutter Capristo

---

### Deadline for manuscript submissions

closed (10 December 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/170163](https://mdpi.com/si/170163)

*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.mdpi.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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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