

Special Issue

Innovative Computer Vision and Deep Learning Applications

Message from the Guest Editor

The convergence of computer vision and deep learning has revolutionized how machines perceive and interpret visual information, enabling breakthrough applications across numerous domains. This Special Issue seeks to showcase cutting-edge research that advances both fundamental methodologies and practical implementations in visual intelligence systems. We invite original research contributions that address the broad spectrum of computer vision challenges using state-of-the-art deep learning techniques. Topics of interest include visual recognition and understanding, 3D vision and scene reconstruction, video analysis and temporal reasoning, vision-language and multimodal learning, generative models for visual content, and applications across diverse domains such as healthcare, autonomous systems, robotics, industrial automation, agriculture, and remote sensing.

Keywords

- autonomous driving
- industrial computer vision
- medical image analysis
- robotics vision
- remote sensing imagery analysis
- agricultural computer vision
- face recognition
- augmented and virtual reality
- object detection, recognition, and tracking
- 3D vision
- image and video segmentation
- explainable AI
- computational imaging

Guest Editor

Dr. Boeun Kim

Department of Software Science, Dankook University, Yongin 16890, Republic of Korea

Deadline for manuscript submissions

30 May 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/260590

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

mdpi.com/journal/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)