

## Special Issue

# Advanced Digital Technology and Artificial Intelligence in Ophthalmology

### Message from the Guest Editors

Ophthalmology stands at the forefront of medical fields embracing digital transformation and AI. The advent of AI has revolutionized various aspects of eye care, from diagnostic imaging and disease prediction to personalized treatment plans and telemedicine. This special issue aims to compile a diverse array of studies, reviews, and perspectives that highlight the multifaceted applications of AI and digital technology in enhancing ophthalmic practice and patient outcomes. We seek submissions that provide new insights, propose novel methodologies, and demonstrate practical applications of digital technology and AI in ophthalmology. Our goal is to create a comprehensive resource that not only highlights the current state of the field but also identifies future directions and opportunities for research and clinical practice. We encourage authors to present interdisciplinary approaches and collaborative efforts that bridge the gap between technology and clinical application. Through this special issue, we hope to foster a deeper understanding of how digital technology and AI can transform ophthalmology, ultimately leading to improved patient care and outcomes.

### Guest Editors

Dr. Hyun Jin Shin

1. Department of Ophthalmology, Konkuk University Medical Center, Seoul 05030, Republic of Korea
2. Research Institute of Medical Science, Konkuk University School of Medicine, Seoul 05030, Republic of Korea
3. Institute of Biomedical Science & Technology, Konkuk University, Seoul 05030, Republic of Korea

Dr. Hyunkyoo Kang

Department of Mechatronics Engineering, Glocal Campus, Konkuk University, Chungju-si 27478, Republic of Korea

### Deadline for manuscript submissions

20 December 2025



## Applied Sciences

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/206600](https://mdpi.com/si/206600)

*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 )