Special Issue

Multimodal AI and Digital Innovations for Next-Generation Ophthalmic Care

Message from the Guest Editor

Ophthalmic care is rapidly evolving through advances in artificial intelligence (AI), biomedical engineering, and digital health. This Special Issue, *Multimodal AI and Digital Innovations for Next-Generation Ophthalmic Care*, welcomes research that integrates heterogeneous data modalities—such as ophthalmic imaging (fundus photography, OCT/OCTA, ultrasound, CT/MRI), functional testing (visual fields, electrophysiology), intraoperative measurements, and clinical metadata—to improve diagnosis, prognostication, and treatment planning. We encourage submissions on computational methods (e.g., deep learning, multimodal fusion, foundation models), as well as engineering innovations that enable objective and reproducible clinical quantification. In addition to disease detection and screening, we particularly welcome studies focused on procedure-related digital biomarkers and surgical decision support, including quantitative assessment of outcomes in strabismus and oculoplastic surgery.

Guest Editor

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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

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