Artificial Intelligence and Mechanistic Modeling: New Tools to Assist in the Management of Ocular and Systemic Disease

Guest Editors:

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Deadline for manuscript submissions:
closed (31 July 2022)

Message from the Guest Editors

This Special Issue of *Photonics* aims at presenting the status of AI and mechanistic modeling in the eye and discusses the utility of these techniques in improving disease diagnosis, treatment, and management. The success of these virtual modeling applications in other fields will also be evaluated as a way to offer insight into how these techniques may alter the course of ocular disease paradigms. Specifically, papers are solicited that demonstrate the use of AI and mechanistic modeling on individual diagnosis, treatment, and management of ocular diseases. Importantly, the health status of the eye is often an indicator of systemic problems, including heart disease, stroke, diabetes, Alzheimer's Disease, and Parkinson's disease. Studies that manage Big Data and identify trends between ocular and systemic disease are especially encouraged. Researchers are invited to submit their contributions to this Special Issue.

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