Big Data and Artificial Intelligence-Driven Research in Ophthalmology

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Message from the Guest Editors

Dear Colleagues,

In recent years, artificial intelligence (AI), which learns and makes decisions by computers based on data, has been introduced in various fields of medicine. In ophthalmology, since the cornerstone study on the development of deep learning algorithm of fundus photographs for diabetic retinopathy in 2016, much research adopting AI for diagnosis or prognosis prediction of the diseases is actively being published. Also, a lot of studies using big data have validated several previously presented hypotheses in the general population.

Research using big data and AI has enabled automated disease screening, diagnosis or risk prediction, and strong power of verification on subtle topics, as well as a discovery of new knowledge by computer. Although it is obvious that there are still some challenges that big data analysis and machine learning technology need to overcome, these data-driven research designs are very crucial in future studies in ophthalmology. We want to activate big data and AI-driven researches in ophthalmology and become a stepping stone for the future.

We look forward to receiving your submissions.

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Guest Editors

Special Issue

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