Special Issue

Artificial Intelligence in Eye Disease

Message from the Guest Editor

While the use of AI is rapidly spreading to the medical world amid the vortex of the fourth industrial revolution, the use of AI in ophthalmology is attracting attention for diagnosis of various ophthalmic diseases, including optic nerve diseases, which are difficult to diagnose. Particularly, it could help to diagnose with high accuracy by introducing the AI when applied to fundus photographs, optical coherence tomography, and visual field to achieve strong classification performance in the detection of ocular and retinal diseases. In ocular imaging, AI can be used as a possible solution for screening, diagnosing, and monitoring patients with major eye disease in primary care and community settings. Thus, deep learning architecture can be applied to learn to recognize eye diseases, thereby raising the diagnosis rate with a clinically acceptable performance. The aims of this Special Issue are to highlight the recent progress and trends in utilizing AI techniques, such as machine learning and deep learning for detecting, screening, diagnosing, and monitoring numerous eye diseases not only in diverse clinical practice but also in basic research of ophthalmology.

Guest Editor

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