



APTOS-APOIS Roundtable

The Role of AI Technology in Future Diagnosis & Management of Ophthalmic Diseases

Saturday, December 14, 2024, 9:00 – 10:30 a.m.

Moderators: Mingguang HE (Hong Kong) & Tien-Yin WONG (China)

Panelists: Kai JIN (China), Yuanbo LIANG (China), Masahiro MIURA (Japan), Arun THIRUNAVUKARASU (U.K.), Benjamin XU (U.S.) & Chun ZHANG (China)

Questions:

1. Can/Will AI chatbots really outperform retina and glaucoma specialists?
2. Are ophthalmologists ready for AI to be a better doctor?
3. What are the key areas where AI can revolutionize the diagnosis and management of ophthalmic diseases in the next decade?
4. How can AI diagnostic tools be integrated into current clinical workflows without causing disruption to existing practices?
5. How can AI contribute to the development of personalized treatment plans for patients?
6. How can AI be used to predict disease progression and outcomes? What are the implications for patient management?
7. In what ways can AI improve the monitoring and follow-up care of patients with chronic ophthalmic conditions?
8. What are the ethical considerations arising from the use of AI in ophthalmology, particularly regarding patient consent, data privacy and algorithm bias?
9. What are the main regulatory hurdles that need to be addressed to ensure the safe and effective implementation of AI technologies in ophthalmology?
10. What kind of training and education will ophthalmologists and healthcare providers need to effectively use AI tools in their practice?
11. How can AI-driven diagnostic and management tools be made cost-effective and accessible even to underserved communities? How can AI technology contribute to improving ophthalmic care in developing countries and addressing global health disparities?