

The 5th Asia Pacific Tele-Ophthalmology Society (APTOS) Symposium

December 12 (Sat) 2020, 09:00-15:25 (GMT+9)
Online via Zoom, More info on [APTOS](#)

09:00 - 09:20 (20')	Registration	
09:20 - 09:30 (10')	Welcoming Speech	Mingguang HE (APTOS) Kyoung Yul SEO (Yonsei University)
09:30 - 09:40 (10')	Opening Speech	WHO Perspectives on AI and Telemedicine Alarcos CIEZA (WHO)
Plenary Talk		
Chair Mingguang HE (APTOS), Sangchul YOON (Yonsei University)		
09:40 - 10:10 (30')	AI and Healthcare: A Perspective of Digital Transformation Jong Min LEE (Samsung Electronics)	
10:10 - 10:40 (30')	Digital Technology and Avoidable Blindness Amanda DAVIS (IAPB)	
10:40 - 10:50 (10')	Q&A	
AI & Global Health		
Chair Alok Nath DE (Samsung India), Drew KEYS (IAPB)		
10:50 - 11:00 (10')	AI and Teleophthalmology as an Innovative Device for the Global Eye Health Phil HOARE (IAPB)	
11:00 - 11:15 (15')	AI Solution for DR in LMICs Fabrizio D'ESPOSITO (Fred Hollow Foundation)	
11:15 - 11:30 (15')	Deep Learning Approach for Screening Retinal Diseases JoonHo LEE (Samsung SDS)	
11:30 - 11:45 (15')	Trash to Treasure: Digital Approach in LMIC with Galaxy Upcycling - Novel Low-Cost Fundus Camera with Upcycled Smartphone Sangchul YOON (Yonsei University)	
11:45 - 12:00 (15')	Non-Invasive Eye Care with Sensor-Rich Smart Devices and Wearables Alok Nath DE (Samsung India)	
12:00 - 12:30 (30')	Luncheon Symposium: Topcon	
Technical Updates in AI: Generative Adversarial Network (GAN)		
Chair Nam-kuk KIM (Asan Medical Center), Young Han LEE (Yonsei University)		
12:30 - 12:45 (15')	An Introduction to Generative Adversarial Networks and an Overview of State-of-the-Art GANs Chaehan SO (Yonsei University)	
12:45 - 13:00 (15')	Realistic High-Resolution Retinal Image Synthesized by a Style-Based Generator Architecture of Generative Adversarial Network Mingyu KIM (Asan Medical Center)	
13:00 - 13:15 (15')	Deep Generative Adversarial Networks: An Overview in Radiology Yi Rang SHIN (Yonsei University)	
13:15 - 13:30 (15')	Ethical and Legal Issues to Consider on GAN So Young YOO (Asan Medical Center)	
13:30 - 13:40 (10')	Coffee Break	
Natural Language Processing (NLP) in Medicine		
Chair Robert CHANG (Stanford University), Hyun Seok CHOI (Yonsei University)		
13:40 - 13:55 (15')	The Weight of Words: Natural Language Processing for Ophthalmology Electronic Health Records Sophia WANG (Stanford University)	
13:55 - 14:10 (15')	From Open-Domain to Biomedical Question Answering Jinhyuk LEE (Korea University)	
14:10 - 14:25 (15')	Amalgamating Natural Language Processing and Computer Vision in Health Sciences Jayanth RASAMSETTI (Sgmoid)	
14:25 - 14:40 (15')	Medical Visualizing Question Answering : Multi-Disciplinary Problems of Computer Vision and Natural Language Processing Danli SHI (Zhongshan Ophthalmic Center)	
14:40 - 14:55 (15')	AWS in Smart Healthcare System - A Braid Introduction of Amazon Textract and Comprehend Medical Yuan SHI (Amazon)	
14:55 - 15:10 (15')	Ophthalmology Fun Quiz Mingguang HE	
15:10 - 15:25 (15')	Closing Remarks: APTOS 2021 & 2nd Big Data Competition Mingguang HE / Paisan RUAMVIBOONSUK	
15:30 - 16:30 (60')	AI Workshop	