

(1) Understanding AI for the Clinician

08:45 – 09:00. Introduction, Educational Goals of the Conference. Adnan Tufail

09:00 – 09:15. AI for the Clinician. Roy Schwartz

09:15 – 09:27. Applications of AI to Image Analysis. Phillippe Valmaggia

09:27 – 09:40. AI and Structure Function Models. Yue Wu

09:40 – 10:05. Foundation Models – What are they and are they better?

- 09:40 – 09:52. Foundation Models for the Clinician. Pearse Keane

- 09:52 – 10:05. Large Language Models. Yue Wu

10:05 – 10:30. Panel Discussion (Sánchez, Wu, Valmaggia). Moderators: Tufail, Khan

10:30 – 11:00. Tea

(2) Expanding Applications of AI and Clinical Ophthalmology Applications

11:00 – 11:10. Corneal/Anterior Segment disorders. Sajjad Ahmed

11:10 – 11:20. How AI Can Impact Cataract and Refractive Surgery. Julian Stevens

11:20 – 11:30. VR Surgery. Can AI Help Surgical Specialties? Lyndon Da Cruz

11:30 – 11:40. Glaucoma. David Crabb/Giovanni Montesano

11:40 – 11:50. Rare Diseases: Orbit. David Verity

11:50 – 12:30. Panel Discussion (Sánchez, Wu, Valmaggia). Moderators: Tufail, Khan

12:30 – 13:30. Lunch with the Experts.

13:30 – 13:40. Overview of the St John of Jerusalem Eye Hospital Group. David Verity

13:40 – 13:50. St John Ophthalmic Association and Its Humanitarian Work. Michelle Khan

(3) AI: Ethics and Standards

13:50 – 13:55. Introduction of Keynote Speaker. Michelle Khan

13:55 – 14:25. Similarities and differences between digital and biological computation. Prof Geoffrey Hinton

14:25 – 14:30. Presentation to Prof Hinton. Michael and Amira Dan

14:30 – 14:40. Trustworthy AI. Clarisa Sánchez

14:40 – 14:50. Regulating AI: Overview of CE Mark, FDA, and Health Canada Standards. Alastair Denniston

14:50 – 15:05. Generating Evidence for AI Mass Clinical Deployment: How Good is Good Enough? Alicja Rudnicka

15:05 – 15:30. Panel Discussion (Hinton, Denniston, Taylor). Moderator: Verity

15:30-15:50. Tea

(4) AI, Digital Health, and Telemedicine: Novel Applications and Accessibility for All

15:50 – 16:00. Telemedicine and Virtual Surgical Guide: Tanzania Project. Cova Basacáran Fanego

16:00 – 16:10. The Role of AI in Accelerating Clinical Trials. Ulrich Luhmann

16:10 – 16:20. Eyeface Network: Linking Professionals from War-Torn and Catastrophe Zones. David Verity

16:20 – 16:30. Novel Applications of AI to Promote Visual Rehabilitation. Saqib Shaikh

16:30 – 16:50. Panel Discussion (Fanego, Maloca, Shaikh). Moderators: Tufail, Verity

16:50 – 17:00. Closing Remarks. Allan Slomovic