Artificial Intelligence, Digital Health, and the Eye

08:15 – 08:45	Registration	
08:45 – 09:00	Welcome: Educational Goals of the Conference	Adnan Tufail

Session 1: Understanding AI for the Clinician

09:00 – 09:15	AI for Clinicians	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?	
	Foundation Models for the Clinician	Pearse Keane
	Large Language Models	Yue Wu
10:05 – 10:30	Panel Discussion (Sánchez, Wu, Valmaggia, Keane) Chief Moderator: Adnan Tufail Moderators: Adnan Tufail, Michelle Khan	

10:30 – 11:00	Tea Break

Session 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	AI in Adnexal Surgery – Disease of the Orbit	David Verity Jimmy Uddin
11:50 – 12:30	Panel Discussion (Sánchez, Wu, Valmaggia) Chief Moderator: Michelle Khan Moderators: Adnan Tufail, Michelle 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

Session 3: Ethics and Standards

13:50 – 13:55	Introduction of Keynote Speaker	Michelle Khan
13:55 – 14:25	Keynote – Similarities and differences between digital and biological computation	Geoffrey Hinton
14:25 – 14:35	Panel Discussion (Sánchez, Wu, Fajtl) Moderators: Adnan Tufail, Michelle Khan	
14:35 – 14:40	Presentation to Professor Geoffrey Hinton by Michael and Amira Dan	
14:40 – 14:50	Trustworthy AI	Clarisa Sánchez
14:50 – 15:00	Regulating AI: Overview of CE Mark, FDA, and Health Canada Standards	Alastair Denniston
15:00 – 15:10	Generating Evidence for AI Mass Clinical Deployment: How Good is Good Enough?	Catherine Egan
15:10 – 15:20	Panel Discussion (Sánchez, Rudnicka, Liu) Chief Moderator: Adnan Tufail Moderators: Adnan Tufail, Michelle Khan	

15:20 – 15:50	Tea Break

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

15:50 – 16:00	AI Solutions for Global Eye Health: Equity and Access.	Covadonga Bascarán
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) Chief Moderator: David Verity Moderators: Adnan Tufail, David Verity	
16:50 – 17:00	Closing Remarks	Allan Slomovic