



Science For A Better Life



A Belfast Vision2020 webinar: AI and machine learning in vision and ophthalmology

Organisers: Prof Tunde Peto, Dr Imre Lengyel and Dr Jose Sousa

The event has been awarded 2 external CPD points by the Royal College of Ophthalmologists.

<https://attendee.gotowebinar.com/register/4245361037299836940>

Friday, 19th June 2020, 1pm-3pm

- 1.00:** Meeting opens
- 1.05:** Welcome and introduction
Professors Tunde Peto and Roger Woods QUB, UK
- 1.10 - 1.40:** Predicting the conversion to “wet” age-related macular degeneration using deep learning
Dr Pearse Keane, UCL and Moorfields Eye Hospital, London, UK
(20 minutes presentation plus 10 minutes for questions)
- 1.40 - 2.10:** A center-surround model of photoreceptor sustenance in aging and age-related macular degeneration, via deep-learning
Professor Christine Curcio, University of Alabama, Birmingham, USA
(20 minutes presentation plus 10 minutes for questions)
- 2.10 - 2.17** The application of AI to detect vascular health and neurodegeneration in the eye and brain: a VAMPIRE perspective
Dr Tom MacGillivray, University of Edinburgh, UK
- 2.17 – 2.24:** Automatic OCT segmentation for daily clinical use
Dr Saber Sami, University of East Anglia, UK
- 2.24 – 2.31:** AI for Inherited Eye Disease: Challenges with deep learning with scarce data
Dr Adam Dubis, UCL Institute of Ophthalmology, UK
- 2.31 - 2.38:** The power of AI to see in retinal images what we can't
Dr Elen Bart, VITO, Belgium
- 2.38 – 2.45:** Autonomous vs Assistive Medical AI
Dr Warren Clarida, IDX, USA
- 2.45 – 2.52:** The computer scientist's point of view
Dr Watjana Lilaonitkul, UCL Institute of Ophthalmology, UK
- 2.52 – 3.15** Panel discussion and close

