Raymond Kai-yu TONG

Chairman / Professor of Department of Biomedical Engineering, CUHK

Topic: AI in Healthcare for Prevention, Treatment Techniques and Patient Outcomes

Abstract:
Artificial intelligence is a new tool with big data to create impact in the healthcare. It shifts healthcare by increasing availability of healthcare data and provides decision and recommendations based on rapid progress of analytics techniques. AI can be applied in cancer detection and intervention, and also applied in medical imagining in neurology and cardiology. There are AI applications in stroke for early diagnosis and robotic control application for rehabilitation. AI will contribute to further enhancing our quality of health. With an ageing population, AI maybe able to provide support to face the challenges to have more effective solutions for prevention and treatment protocols.

Biography:
Raymond Kai-yu Tong received his PhD in Bioengineering from the University of Strathclyde, Glasgow, UK in 1999. He is a Biomedical Engineer and currently is the Professor and Chairman in the Department of Biomedical Engineering.

His research interests include Rehabilitation Robotics (e.g. Exoskeleton robotic hand), Brain-Computer Control Interface (BCI), Neural Engineering, Functional Electrical Stimulation (FES) and Cognitive Assessment Software. Projects have been funded by Innovation and Technology Fund and UGC CERG/GRF as principal investigator. His research, innovation and service have received Awardee of the 2013 Ten Outstanding Young Persons (Hong Kong); the Grand Prix Award (the highest honor) of the International Exhibition of Inventions of Geneva 2012; Winner Award (e-Health) (the highest honor) in the Asia Pacific ICT Award 2012; and HKIE innovation awards for young members (2008), gold awards in international invention exhibitions (2004, 2007, 2010, 2015, 2016).