

IEEE EMB DISTINGUISHED LECTURER PROGRAM

IEEE EMBS Malaysia Chapter invites you to a DLP by **Dr Carmen Poon** from The Chinese University of Hong Kong

Date	Time	Venue
Friday July 19 th 2019	10:00am	Level 7, Razak Tower, Universiti Teknologi Malaysia, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur.
	3:00pm	Department of Mechatronics and Biomedical Engineering, Lee Kong Chian Faculty of Engineering and Science, Universiti Tunku Abdul Rahman

Title: Wearable Sensing and Sensor Networks for Precision Medicine

Abstract: Many diseases are heterogeneous and dynamics in nature. Feedbacks are critical to the prediction and tailoring of treatments to each individual. This is made possible by nowadays wearable and mobile devices. Nevertheless, designing a sensor network with these devices and training the prediction models associated with them to ultimately change surgical practices are challenging. This talk will discuss 1) different types of wearable sensors and sensor networks for collecting streamlines of biomedical/health information; and 2) how knowledge learnt from large-scale online public sources can be transferred to better utilize the collected information for predicting surgical/clinical outcomes and realizing real-time automated interventions.

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**Dr. Carmen Poon** received the B.A.Sc. in Engineering Science, M.A.Sc. in Biomaterials and Biomedical Engineering & Electrical and Computer Engineering at University of Toronto. She completed her Ph.D. in Electronic Engineering at The Chinese University of Hong Kong (CU), and later joined the Department of Surgery of CU Medicine as a faculty member in 2012. Her main research interests include wearable sensing and endoscopic informatics that have potential to change surgical practices. Several pieces of her works in these areas have been rated *Highly Cited Papers* by [ISI Web of Science](#) (2015-2019) and collectively, her works have been cited >2500 times in [Scopus](#) (as of Mar. 2019).

Carmen is serving as Conference Chair of the 16<sup>th</sup> International Conference on Wearable and Implantable Body Sensor Networks, which will be held in Chicago, USA, 2019. She has served as Chair of the IEEE Engineering in Medicine and Biology Society (EMBS) Technical Committee on Wearable Biomedical Sensors and Systems (2016-2017), EMBS Administrative Committee member (2014-2016), and Managing Editor for IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS (2009-2016). She now serves on the Editorial Boards for several international peer-reviewed journals published by IEEE, IOP, Elsevier and ACM.

Carmen is a Senior Member of IEEE and a Distinguished Lecturer of EMBS. She received the IFMBE/IAMBE Early Career Award awarded by International Federation of Medical and Biological Engineering / The International Academy of Medical and Biological Engineering in 2015, and the IEEE-EMBS Academic Early Career Achievement Award “for contributions to wearable sensing and endoscopic surgery” in 2018.