

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Faculty of Engineering

Website: <https://www.eng.nus.edu.sg/ece/>

Area: Signal Analysis & Machine Intelligence

Host: Assoc Prof Thomas Yeo Boon Thye

TOPIC	:	Introduction To Deep Learning In Medical Image Analysis
SPEAKER	:	Dr. Xiaomeng LI Stanford University
DATE	:	Thursday, 20 August 2020
TIME	:	12.00PM to 1.00PM
WEBINAR	:	Join Zoom Meeting https://nus-sg.zoom.us/j/4156763801?pwd=NUwzUWhwdlZlcGt3cmhyTzFld1V0QT09 Meeting ID: 415 676 3801 Password: 662108

ABSTRACT

Lecture abstract:

Introduce students to machine learning (ML) / artificial intelligence (AI) in healthcare. Topics include current opportunities of AI in healthcare, a brief introduction to deep learning, examples of deep learning techniques for automatic diagnosis from medical images, such as CT, MRI, or dermoscopy images.

Student Learning Outcomes:

Students will learn the concepts of how deep learning techniques transform the medical diagnosis area. From this course, the students will be able to gain an understanding of the techniques that are acquired for AI-powered medical diagnosis systems.

BIOGRAPHY

Dr. Xiaomeng LI is currently a postdoctoral research fellow at the School of medicine at Stanford University. Before that, she received her Ph.D. degree in the Department of Computer Science and Engineering at The Chinese University of Hong Kong. Her research interests are developing advanced machine learning/deep learning methods for medical image analysis, especially for medical image diagnosis. She won two international medical image diagnosis challenges as the main contributor. Her first-authored paper "HDenseUNet" is listed among IEEE TMI Most Popular Articles and is the "Highly cited paper" by ESI. She serves as a PC member of IJCAI'20, AAAI'20, CVPR'19 and MICCAI'19,20 workshops, and a reviewer of top journals and conferences such as IEEE-TMI, JBHI, Medical Image Analysis, ECCV'20, MICCAI'18,19,20, CVPR'20, ICCV'20, etc.

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