

## Jimmy Liu

Professor, Department of Computer Science and Engineering, Southern University of Science and Technology;  
Principal Scientist, National Eye Research Center, Singapore (Adjunct)

**Talk Topic:** Intelligent Ocular Imaging Research and IMED Team latest research update 2019

**Talk Abstract:** In the talk, Jimmy will update the ocular imaging research work in the past years. He will share his AI-based eye image processing work on various ocular imaging modalities. He will cover the following 4 areas conducted in IMED Team (Singapore, Ningbo and Shenzhen): ocular disease screening, robot assisted eye micro-surgery, ocular biometrics, as well as ocular medical informatics using genome study. He will introduce the current issues, technologies and approaches in this inter-disciplinary research area, and introduce his latest research work in 2018/2019 in details.

**Bio:** Jimmy Liu graduated from the Department of Computer Science of the University of Science and Technology of China in 1988. He further obtained his master and doctoral degrees in Computer Science from the National University of Singapore. In 2004, he started the Intelligent Medical Imaging Research Team (iMED Singapore, A\*STAR) and grew it to become one of the world's largest ophthalmic medical image processing team, focusing on ophthalmic Artificial Intelligence research. Jimmy was the chairman of the IEEE Singapore Biomedical Engineering Society in Singapore.

In March 2016, Jimmy returned to China and founded the iMED China (Ningbo) team. He was the founding director and senior professor of the Cixi Institute of Biomedical Engineering (CIBE) of the Chinese Academy of Sciences.

In February 2019, he joined the Department of Computer Science and Engineering of the Southern University of Science and Technology to establish iMED China (Shenzhen) . .He will devote his time to more fundamental eye-brain, Artificial Intelligence, precision medicine, surgical robotics research.