



Professor Jimmy Liu
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Biography summary

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 and grew the Intelligent Medical Imaging Research Team (iMED Singapore), focusing on ocular Artificial Intelligence research. Jimmy was the chairman of the IEEE Singapore Biomedical Engineering Society in Singapore before moving to China.

In March 2016, Jimmy moved to China and became the founding institute director of the Cixi Institute of Biomedical Engineering (CIBE) under the Chinese Academy of Sciences (CAS). He further founded the iMED China Ningbo team in CIBE focusing on ocular image AI research.

In February 2019, he joined the Department of Computer Science and Engineering of the Southern University of Science and Technology and established iMED China Shenzhen continue to focus on ocular AI image AI research. Right now, iMED China team are devoting themselves to eye-brain imaging, ocular imaging, ocular precision medicine, and ocular surgical robotics 4 research areas.

姓名：刘江

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简介摘要：

刘江，本科就读于中国科学技术大学计算机系，硕士和博士就读于新加坡国立大学计算机系。2004 年创建了新加坡科技局下属的智能医疗影像研究团队（iMED 新加坡），专注于眼科人工智能研究，曾任 IEEE 生物医学工程学会新加坡地区主席。

2016 年通过人才计划回到中国成立 IMED 中国，并担任中国科学院宁波材料所慈溪生医工所首任所长和高级研究员，2019 年加入南方科技大学。与新加坡健保集团、日本 TOPCON 集团、日本 TOMEY 集团，中山大学中山眼科中心等国际国内知名研究机构、医疗集团和医疗器械设备厂商保持技术合作并成立联合实验室。研究方向是：眼科人工智能技术，眼科精准医疗，眼科手术机器人以及眼脑联动。

Title of the talk: Intelligent Ocular Image Process – Research Update of iMED Team

Abstract: Jimmy will talk about the modalities, methods, algorithms of the ocular imaging research. He will also highlight the iMED team (www.imed-lab.com) latest research progress in the past one year in ocular image enhancement, retinal blood vessel reconstruction, AS-OCT glaucoma screening, search-based ocular disease diagnosis, corneal endothelial cell detection, etc.

报告题目： 智能眼科图像处理及及 iMED 团队科研进展

报告简介： 刘江将在报告中分享智能眼科图像处理的对象，手段，算法及最新研究方向。同时重点介绍 iMED 团队 (www.imed-lab.com) 在过去一年的人工智能眼科图像增强，眼血管重建，AS-OCT 青光眼筛查，基于检索的眼疾病诊断，以及眼角膜内皮细胞检测等具体科研进展。