

**2017-07-24 西安光機所 OPTIMAL中心 系列学术讲座**

讲座地点： 西安光机所 3号楼3楼 光学影像分析与学习中心 会议室 ( OPTIMAL )  
高新区信息大道17号 ( 220/204/313路到发展大道 )

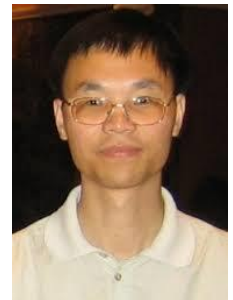
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讲座题目： **Machine Learning for Healthcare Applications**

讲 座 人： Prof. Huiyu Zhou (Queen's University Belfast, UK)

讲座时间： 2017年07月24日 ( 周一 ) 上午10:00—11:30

**讲座摘要：** Machine learning has been continuously playing a key role in turning complex medical data into understandable knowledge that can help improve healthcare quality. In this talk, novel contributions made in his group addressing the challenges inherent to health-related data will be revealed. Specially, three examples where machine learning technologies have been successfully applied will be introduced. The first example is about the development of an automated mouse behaviour recognition system. This is followed by the design of an intelligent tool for histopathological cancer image analysis. Finally, automated analysis of foetal movement in ultrasonic videos will be discussed.



**讲座人简介：** Dr. Huiyu Zhou obtained a Bachelor of Engineering degree in Radio Technology from the Huazhong University of Science and Technology of China, and a Master of Science degree in Biomedical Engineering from the University of Dundee of United Kingdom, respectively. He was then awarded a Doctor of Philosophy degree in Computer Vision from the Heriot-Watt University, Edinburgh, United Kingdom.

He has published **over 130 peer-reviewed papers** in the field. He was the recipient of "Computer Vision and Image Understanding 2012 **Most Cited Paper Award**", "International Conference on Pattern Recognition Applications and Methods (ICPRAM) 2016 **Best Paper Award**" and was nominated for "ICPRAM 2017 **Best Student Paper Award**" and "Medical & Biological Engineering & Computing 2006 Nightingale Prize". Four of his papers recently published by Elsevier were ranked as the **ScienceDirect Top 25 Articles**.

Dr. Zhou currently serves as the **Editor-in-Chief** of Recent Advances in Electrical & Electronic Engineering and Associate Editor of "IEEE Transaction on Human-Machine Systems", and is on the Editorial Boards of five refereed journals. He is one of the Technical Committee of "Information Assurance & Intelligent Multimedia-Mobile Communication in IEEE SMC Society", "Robotics Task Force" and "Biometrics Task Force" of the Intelligent Systems Applications Technical Committee, IEEE Computational Intelligence Society. He serves or has served as a **technical program committee for 300 conferences** in signal and image processing and a reviewer for **100 refereed journals** including over **20 IEEE Transactions/Journals**. He has given over 50 invited talks at international conferences, industry and universities, and has served as a **chair for 30 international conferences and workshops**. His research work has been or is being supported by UK EPSRC, Royal Society, EU, Leverhulme Trust, Puffin Trust, Invest NI and industry.

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OPTIMAL: Center for OPTical IMagery Analysis and Learning