



学术讲座

主 题: Sign language recognition and other current Oxford Group research directions

报 告 人: Xi Chen 博士, Research Fellow, 英国牛津大学

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内容摘要:

With the advent of Kinect and other cheap depth sensors, gesture recognition has received a significant amount of attention from the computer vision community. However, it is still often the case that the main approaches to this problem require strongly supervised learning, thus demanding huge quantities of labelled ground truth data. This is extremely costly, and prohibits algorithms from scaling to large scale, real world sign language recognition.

We address this problem by one-shot learning and weakly supervised learning. The core idea is that, using weakly supervised data from different domains, one-shot learning can gain a large performance boost, given suitable domain adaptations. I will also be presenting more recent work on building a large sign language dataset from BBC broadcasts and, along with the work on sign language I will also present more recent works from CVPR15 by our research group.

报告人简介:

Xi Chen is a researcher in the University of Oxford, working in the Visual Geometry Group (VGG) with Professor Andrew Zisserman. She has obtained her PhD in Machine Learning and Computer Vision with Professor Erkki Oja, from Aalto University, Finland. She also completed double MScs with distinctions in Space Technology, Luleå University of Technology, Sweden, and in Space Robotics and Automation, Helsinki University of Technology, Finland, and holds a Masters in Measuring Technology and Instrument and Bachelors Measuring and Controlling Technologies and Instruments from Tianjin University, China. She has broad research interests due to her multidisciplinary background, with a current focus on sign language recognition.