

Detecting and Parsing Objects

Alan L. Yuille, *University of California, Los Angeles*



This talk describes recent work on detection and parsing visual objects. The methods represent objects in terms of object parts encoding spatial relations between them. We use AND/OR graphs to share parts between different, but similar, objects (e.g., cow torso and horse torso). We use deep convolutional network models to make proposals for the presence of parts. This work gives state of the art results on parsing of humans and animals. We also briefly discuss how we can build on this work to estimate 3D structure of humans from single images.

Dr. Alan Yuille:

Alan Yuille received the BA degree in mathematics from the University of Cambridge in 1976. His PhD on theoretical physics, supervised by Prof. S.W. Hawking, was approved in 1981. He was a research scientist in the Artificial Intelligence Laboratory at MIT and the Division of Applied Sciences at Harvard University from 1982 to 1988. He served as an assistant and associate professor at Harvard until 1996. He was a senior research scientist at the Smith-Kettlewell Eye Research Institute from 1996 to 2002. He joined the University of California, Los Angeles, as a full professor with a joint appointment in statistics and psychology in 2002. He obtained a joint appointment in computer science in 2007. His research interests include computational models of vision, mathematical models of cognition, and artificial intelligence and neural networks.

时间： 9月11日， 10:30-11:30

地点： 理科2号楼2736室