上海交通大学自动化系
Department of Automation
Shanghai Jiao Tong University

系统控制与信息处理教育部重点实验室
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Some work toward General Purpose Vision (GPV)

Prof. Yizhou Wang

Peking University

Abstract:

Natural images exhibit strong statistical regularities. These regularities not only reflect the visual structure of the physical world, but also shape our human visual system (HVS). Hence, they are semantically meaningful to HVS. We believe that the meaningful visual structures form the underlying representations of natural images; they are adept at supporting general purpose vision processes, and they are the key to enhance the generalization ability of visual learning as well as the design of efficient and robust algorithms. In this talk, I will present several work about pursing the semantically meaningful structures of objects and natural scenes.

Biography:

Yizhou Wang is a Professor of Computer Science Department at Peking University, Beijing, China. He is a vice director of Institute of Digital Media at Peking University, and the director of New Media Lab of National Engineering Lab of Video Technology. He received his Bachelor's degree in Electrical Engineering from Tsinghua University in 1996, and his Ph.D. in Computer Science from University of California at Los Angeles (UCLA) in 2005. He worked at Hewlett-Packard as a system and network consultant from 1996 to 1998. After he got his Ph.D., he joined Xerox Palo Alto Research Center (Xerox PARC) as a research staff from 2005 to 2007. He serves as an associate editor of IEEE Transactions on Cognitive and Developmental Systems (TCDS). He has published more than 70 papers, including TPAMI (3), IJCV (4), CVPR (8), ICCV (4), AAAI, TIP, TCSVT (2), etc. Dr. Wang's research interests include computational vision, statistical modeling and learning, pattern analysis, and digital visual arts.