CSGI

Y. SATO LAB.

[Computer Vision]

Center for Socio-Global Informatics

http://www.hci.iis.u-tokyo.ac.jp

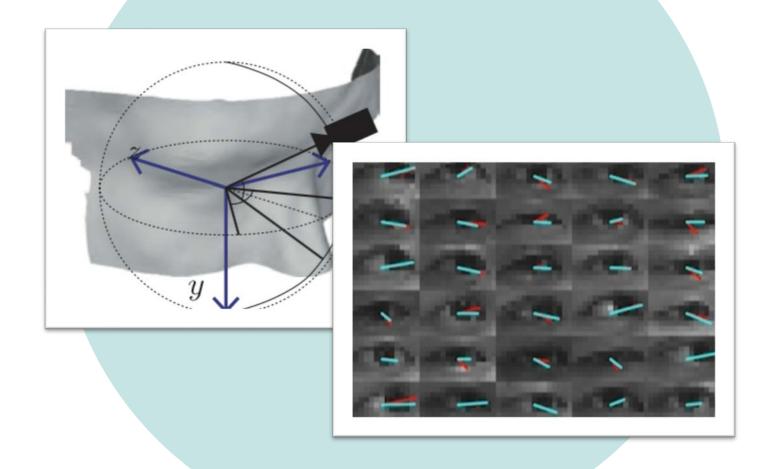
Visual Media Engineering

Department of Information and Communication Engineering, Graduate School of Information Science and Technology Emerging Design and Informatics Course, Graduate School of Interdisciplinary Information Studies

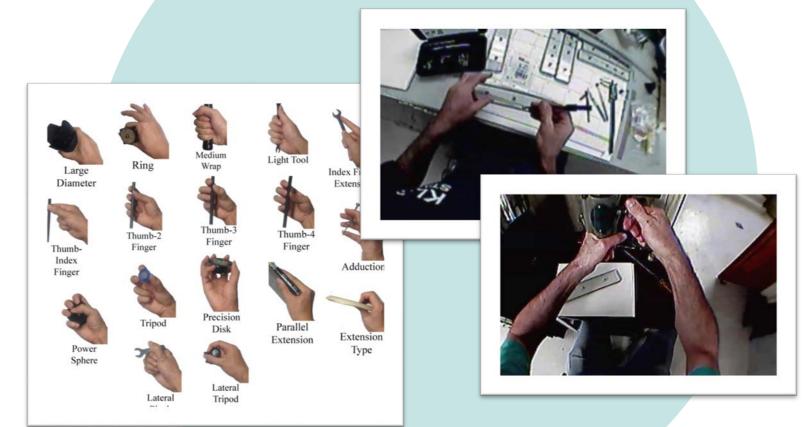
Computer Vision for Human Behavior Sensing and Material Perception Analysis

Toward development of information systems which can casually offer assistance to those who need it, real-time sensing of human behaviors including visual focus of attention is important. In our group, we develop computer vision techniques for sensing and understanding our visual focus of attention and activities in real world, and propose their applications to human-computer interaction. In addition, we have been studying sensing and modeling of real object appearance for material perception analysis.





3D gaze estimation from eyes

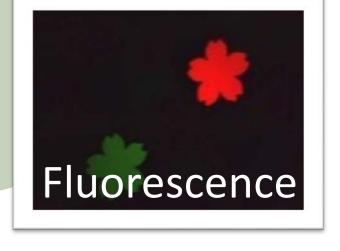


Grasp recognition for first-person videos

Spectral sensing and analysis of reflectance and fluorescence



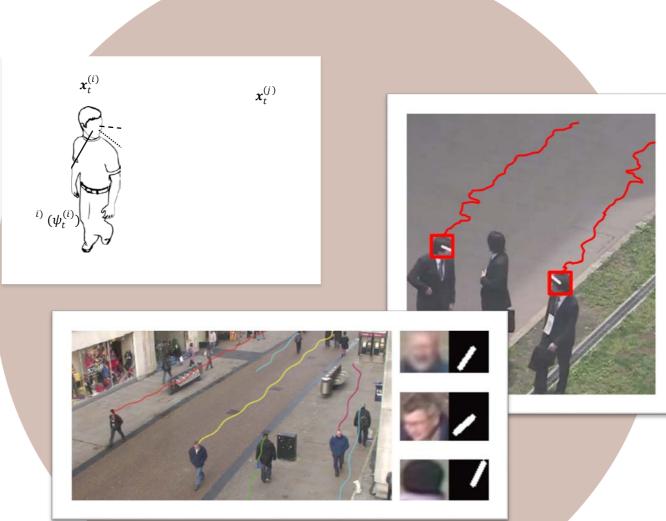




Recognizing human-computer, human-human interactions

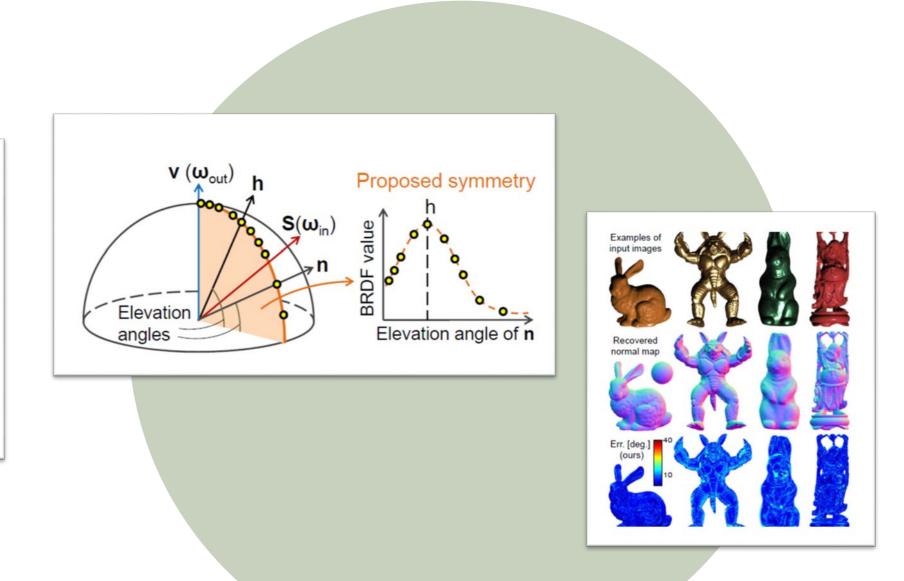


Person identification for first-person videos



Social group discovery from surveillance videos

Analyzing reflectance and illumination



Photometric stereo for detailed shape recovery