CSGI

Y. SATO LAB. [Computer Vision]

Center for Socio-Global Informatics

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

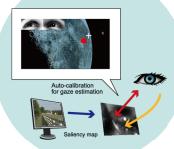
Visual Media Engineering

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.

Understanding human gaze and activities



Gaze estimation using visual saliency

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Activity recognition using ego-motion and eye-motion

Spectral sensing and analysis of reflectance and fluorescence





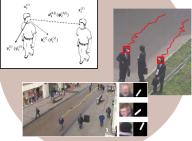


Analyzing reflectance and illumination

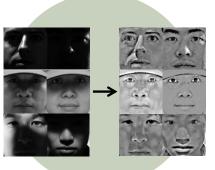
Recognizing human-computer, human-human interactions



Multi-touch interaction with free head motion



Social group discovery from surveillance videos



Face recognition under various illuminations