



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

Human Computer Intelligent Interaction

by

Professor Thomas S. Huang

Dept. of Electrical and Computer Engineering Coordinated Science Lab.

Beckman Institute for Advanced Science and Technology

University of Illinois at Urbana-Champaign

Date : 20 December, 2010 (Mon.)
Time : 5:30pm - 6:30pm
Venue : Room 1009, William M.W. Mong Engineering Building
The Chinese University of Hong Kong

Abstract

Computer technologies are progressing at a breakneck speed. But the tremendous computing speed and the enormous storage capacity come to naught, if we do not have intelligent human-computer interfaces. In this talk, I shall describe some of the research my students and I have been doing during the last decade on Human Computer Interaction. Specifically, information flow from human to computer: Hand/fingers tracking and gesture recognition; face tracking and emotion recognition; shrug detection; gender and age group recognition.

And information flow from computer to human: Audio-visual emotive avatar. These interfaces have applications in many areas including Gaming and Electronic Consumer Relation Management (ECRM). Examples in ECRM include:

Collection of demographic data (how many % of white male teenagers buy Product X?), adaptive public display (what is displayed depends on the genders, ages, and emotional reactions of the audience), and embodied intelligent agent.

Biography

Professor Thomas Huang received his Sc.D. from MIT in 1963. He is William L. Everitt Distinguished Professor in the University of Illinois at Urbana-Champaign Department of Electrical and Computer Engineering and the Coordinated Science Lab (CSL); and a full-time faculty member in the Beckman Institute Image Formation and Processing and Artificial Intelligence groups. His professional interests are computer vision, image compression and enhancement, pattern recognition, and multimodal signal processing.

Professor Huang is a Member of the US National Academy of Engineering, a Foreign Member of the Chinese Academy of Engineering and a Foreign Member of the Chinese Academy of Sciences.

**** ALL ARE WELCOME ****