

Psychology-Driven Design of Intelligent Interfaces

by

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Place: Room Z23, Computer Engineering Building, GTU

All interested are cordially invited.

ABSTRACT:

The recent advances in computer vision and machine learning coupled with cheaper hardware and abundant computational power have led to a surge in user interfaces that support new modes of interaction such as gestures and speech. These technologies were originally motivated by removing our dependency on traditional mouse and keyboard-based interaction. However, this quest has mostly resulted in mere substitution of us humans in for the keyboard and the mouse without significant changes in the interaction paradigms. In other words, rather than throwing away the mouse and the keyboard altogether, we inadvertently “turned people into mice.” Now, there are renewed attempts to build natural and easy to use interfaces by combining machine learning, computer vision and human computer interaction. These efforts collectively define the field of intelligent user interfaces. In this talk, I will present case studies on intelligent user interfaces with a specific emphasis on how psychology can be a guide in building smart systems.

BIOGRAPHY:

Dr. Sezgin graduated summa cum laude with Honors from Syracuse University in 1999. He completed his MS in the Artificial Intelligence Laboratory at Massachusetts Institute of Technology in 2001. He received his PhD in 2006 from Massachusetts Institute of Technology. He subsequently joined the Department of Computer Science at the University of Cambridge as a Postdoctoral Research Associate. Dr. Sezgin is currently an Associate Professor in the College of Engineering at Koç University, Istanbul. His research interests include intelligent human-computer interfaces, multimodal sensor fusion, and HCI applications of machine learning. Dr. Sezgin is particularly interested in applications of these technologies in building speech- and pen-based intelligent interfaces. Dr. Sezgin's has held visiting posts at Harvard University and Yale University. His research has been supported by international and national grants including grants from the European Research Council, and Turk Telekom. He is a recipient of the Career Award of the Scientific and Technological Research Council of Turkey.