NSF-KDI PROJECT IAP COURSE/WORKSHOP

"The Latest on Object Recognition in Man, Monkey and Machine"

Monday, January 29, 2001
Room E25-202, 10:00 am - 2:00 pm

Speakers from different labs in the Department of Brains & Cognitive Sciences present results from an on-going collaboration exploring how the cortex learns to categorize, recognize and represent objects. Eight talks covering computational, psychophysical, fMRI and electrophysiological approaches will describe the latest advances in our understanding of object recognition in man, monkey and machine.

morning (10:00 am - 12:10 pm)

Maximilian Riesenhuber  Models of Object Recognition in Cortex
Nancy Kanwisher  Special-purpose and General-purpose Mechanisms of Visual Object Recognition - fMRI Investigations
Kalanit Grill-Spector  Representation of Objects in the Human Visual Cortex - Invariances and Selectivities
Earl Miller  The Prefrontal Cortex and How Visual Cognition Works
David Freedman  Neuronal Correlates of Categorical Perception and Learning in the Primate Prefrontal Cortex

12:10 pm - 12:40 pm  LUNCH BREAK: Refreshments will be served

afternoon (12:40 pm - 2:00 pm)

Jon Wallis  Neuronal Encoding of Abstract Rules in Prefrontal Cortex
Martin Giese  Hierarchical Neural Model for the Recognition of Biological Motion
Tomaso Poggio  Computational Perspectives of Object Recognition

Sponsored by: Center for Biological & Computational Learning
Contact: Maximilian Riesenhuber, max@ai.mit.edu