CNS 176 (Cognition) will be offered! (Spring term)

Cognition

CNS/Bi/SS/Psy 176

Spring 2021

Shinsuke Shimojo

TA: Sara Adams

9 Units (4-0-5)

WF 10-12am

The cornerstone of current progress in understanding the mind, the brain, and the relationship between the two is the study of human and animal cognition. This course will provide an in-depth survey and analysis of hot topics in human cognitive neuroscience. This year, we take a specific approach to the course (to enhance intellectual interactions in the remote environment) with a short lecture (by the instructor and guest lecturers), students' reports on readings, and free discussion. The topics will include; Multisensory interaction, sensory substitution and plasticity; Postdiction, hindsight, and free will; Cognition of solo flow and team flow; Attractiveness of visual objects; Implicit cognitive process, and qualia; Attention and memory; Intrinsic tempo in body and brain, etc.

Undergraduates CAN take the course with an instructor's permission. Prerequisite (or preferred background) includes an introduction to experimental psychology, neuroscience, cognitive science, computational vision, biomedical engineering, etc. Some coding skills (MATLAB, C++) are not required but preferred.

Shinsuke Shimojo PhD
Gertrude Baltimore Professor of Experimental Psychology,
Division of Biology & Biological Engineering / Computation & Neural Systems,
California Institute of Technology
sshimojo@caltech.edu; http://neuro.caltech.edu
