Classes

**Dynamical systems and control** [1]

**Semester:** Fall  
**Offered:** 2012  
[Course site] [2]

Dynamical systems and linear control theory is one of the fundamentals of theoretical engineering and a jewel of applied math, too often missed by scientists. The recent interest in biological control processes, both in computational neuroscience and in bioinformatics, makes control theory an essential background for advanced students and researchers in these fields.

**Models of perception-action cycles** [3]

**Semester:** Spring  
**Offered:** 2012  
[Course site] [4]

The course will describe and help advancing our new theoretical framework for the PA cycle, which is becoming a hot research topic in learning, computational neuroscience and computational biology. The course is intended for advanced ICNC students and graduate machine learning, computational biology, and engineering students. Background in information theory and reinforcement learning can help but is not essential.

**Introduction**

**UPCOMING EVENTS**

Learn more about our exciting upcoming events!

**Studying at ELSC**

Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.
The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

ELSC Media Channel

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Links:
[1] https://elsc.huji.ac.il/tishby/classes/dynamical-systems-and-control