“Promoting Neural Plasticity”

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Presented by
The Center for Adaptive Neural Systems

Participating units:
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Center for Adaptive Neural Systems
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Department of Chemical Engineering
Department of Electrical Engineering
Imaging and 3D Data Exploitation and Analysis Lab

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Department of Kinesiology
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THE CENTER FOR ADAPTIVE NEURAL SYSTEMS
presents a symposium on “Promoting Neural Plasticity”

This symposium is the second in a series of three symposia and workshops supported by a grant from the National Science Foundation Science and Learning Centers program to discuss the science and engineering of learning. Our primary goal in this series is to explore key issues regarding co-adaptation, i.e. the integration of adaptive engineered systems with adaptive biological systems. This goal, in turn, is driven by the desire to design prosthetic devices in which adaptive engineered systems are seen as interacting in dynamic ways and across many levels of organization, from the cellular to the behavioral, with adaptive biological systems. The focus on the technology side is on adaptive actuators and sensors, and on the IT side on adaptive algorithms and modeling. Plasticity of the living system is a cross-cutting theme. In the symposium, life scientists, engineers, mathematicians and clinician-scientists will discuss limitations and opportunities for anticipated advances in enabling technologies and strategies to promote adaptation and learning in the nervous system.

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