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Neural Prosthesis Seminar

Brain Implants, Virtual Reality, and Treatment of Neuropsychiatric Disorders

Friday, Nov 16 • 8:30 am

Wolstein Research Building, Room 1413
Case Western Reserve University

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David Geffen School of Medicine at UCLA
Department of Neurosurgery

Abstract

Progress in neuroprosthetics and virtual reality technology provide unprecedented opportunities to discover the neural substrates of human cognition, specifically to examine and modulate deep brain activity during real world behaviors such as spatial navigation and episodic memory. In this talk Dr. Suthana will discuss current findings and ongoing projects using recordings deep from within the brain in freely moving humans combined with full body motion capture and virtual reality methodologies to understand functions such as spatial navigation and episodic learning and memory. She will also discuss ongoing projects underway that utilize deep brain stimulation and recordings in ways that are relevant for characterizing and treating neuropsychiatric disorders such as post-traumatic stress disorder.

For more information, please contact Cheryl Dudek
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Live stream video link for each lecture at www.FEScenter.org/Seminar

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