

Neural Prosthesis Seminar

Models of Motor Control and Learning in Therapeutic Rehabilitation

Friday, October 20 • 8:30 am

Biomedical Research Building, Room 105
Case Western Reserve University



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Abstract

It has been shown to be powerful to leverage what we know (i.e., existing models) about neural adaptation in neurorehabilitation. These models stem from how people learn through mistakes, and several techniques on using such models might dictate better training conditions helped by robotic technology. However, the clinical trials model has not proven to be effective test because of few samples and restrictive inclusion criteria. This talk will show how such "small data" problems lend themselves well to scrutiny and interrogation from modern predictive modeling and validation techniques, suggesting a more "organic" model for gathering data.

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