August 24, 2017

Jörn Malzahn, PhD

Frontiers Editorial Board

Dear Dr. Strick,

You effortlessly opened this cover letter—yet how our brain controls the many muscles of our limbs continues to be an area of intense investigation.  Neuromuscular control has been formally studied from multiple directions and perspectives ever since the time of Sherrington.

We are excited to present for your consideration a new perspective to the high-dimensionality of neuromuscular learning and control. Included, please find a description of a mathematically, biologically, and statistically sound theory that explicitly confronts the high-dimensional control problem the brain faces, and competently reconciles today’s three dominant theories of neuromuscular control—Optimal, Synergistic, and Probabilistic neural control.

This Article titled *“Feasibility Theory reconciles alternative approaches to neuromuscular control”* provides a new perspective on the origins, merits and limitations of these current schools of thought. In so doing, it inspires new hypotheses and research directions. As such, this novel approach, which we call ***Feasibility Theory***, will compel formerly disparate fields to interweave and advance.

Each of the following prominent scientists is a contemporary leader in these different approaches to neuromuscular control. They would, therefore, be excellent reviewers to provide you with a rigorous and fair evaluation of our work.

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*\*Dr. Santello is a leader in the area of neuromuscular synergies. He and I just submitted an invited review article on robotic manipulation, but we have never collaborated in research. Should you consider this to pose a conflict of interest, please feel free not to consider him.*

Please do not hesitate to contact me should you require additional information.



Very sincerely yours,

Francisco J. Valero-Cuevas, PhD

*Corresponding Author, and on behalf of Brian Cohn, May Szedlák, PhD, and Bernd Gärtner, PhD*