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## **Amazon.com: Neural Control Engineering: The Emerging ...**

Laboratory for Neural Engineering and Control. Welcome to the Laboratory for Neural Engineering and Control in the Department of Biomedical Engineering

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An important aspect of developing

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neural network models is the concept of measurement and control space.

"Measurement space" is the multidimensional limits defined by the measurement range of each input representing one dimension. An array of inputs is called the "input vector."

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Neural engineering (also known as neuroengineering) is a discipline within biomedical engineering that uses engineering techniques to understand, repair, replace, or enhance neural systems. Neural engineers are uniquely qualified to solve design problems at the interface of living neural tissue and non-

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living constructs (Hetling, 2008).

## **Neural engineering - Wikipedia**

Neural Engineering (NE) Neural Engineering research involves fundamental and applied studies related to neurons, neural systems, behavior and neurological disease. This program involves fundamental and applied

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studies related to neurons, neural systems, behavior and neurological disease encompassing a spectrum of activities, including mathematical modeling; exploring novel approaches to sensory (vision, hearing, smell and touch) and motor processing; exploring fundamentals of neural plasticity;

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## **Neural Engineering (NE) - Biomedical Engineering at WashU**

Neural Control Engineering: The Emerging Intersection Between Control Theory and Neuroscience Written for scientists and physicians in the fields of biology, physics, and engineering, this book presents the fundamentals of control theory and computational

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Neural Control Engineering is the first comprehensive account of the most recent developments. Schiff is perhaps uniquely qualified to write it: He is a practicing neurosurgeon, a

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Department of Psychological and Brain Sciences, Indiana University, author of Networks of the Brain

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Press Ltd. England. 2003 Ø Neural Control Engineering: The Emerging

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Intersection between Control Theory and Neuroscience. Steven J. Schiff. The MIT Press. First edition 2012

Ø Redes Neuronales y Sistemas Borrosos. Bonifacio Martín del Brío y Alfredo Sanz Molina. Ed. RAMA. 2001

Ø Fuzzy Control. Kevin M. Passino, Stephen Yurkovich.

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Neural Systems for Control represents the most up-to-date developments in the rapidly growing application area of neural networks and focuses on research in natural and artificial neural systems directly applicable to control or making use of modern control theory.

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