Emerging Theory and Practice in Neuroprosthetics

Part of the Advances in Bioinformatics and Biomedical Engineering Book Series

Ganesh R. Naik (University of Technology Sydney (UTS), Australia) and Yina Guo (Taiyuan University of Science and Technology, China)

Neuroprosthetics is a fast-growing area that brings together the fields of biomedical engineering and neuroscience as a means to interface the neural system directly to prostheses. Advancing research and applications in this field can assist in successfully restoring motor, sensory, and cognitive functions.

Emerging Theory and Practice in Neuroprosthetics brings together the most up-to-date research surrounding neuroprosthetics advances and applications. Presenting several new results, concepts, and further developments in the area of neuroprosthetics, this book is an essential publication for researchers, upper-level students, engineers, and medical practitioners.

Topics Covered:
- Anatomy and Physiology of Central Nervous System
- Brain-Computer Interface
- Design of Neuroprosthetic Devices
- Implementation of Neuroprosthetic Devices
- Neural Signal Processing
- Neuroplasticity
- Neuroprosthetic Control
- Prosthetic Limbs
- Skeletal Muscle
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