DESCRIPTION

Reflects on developments in noninvasive electromyography, and includes advances and applications in signal detection, processing and interpretation

• Addresses EMG imaging technology together with the issue of decomposition of surface EMG

• Includes advanced single and multi-channel techniques for information extraction from surface EMG signals

• Presents the analysis and information extraction of surface EMG at various scales, from motor units to the concept of muscle synergies.

ABOUT THE AUTHOR

ROBERTO MERLETTI is Founding Director of the Laboratory for Engineering of the Neuromuscular System and Professor of Rehabilitation Engineering in the Department of Electronics, Politecnico di Torino, Italy. He has co-authored and authored books such as Atlas of Muscle Innervation Zones: Understanding Surface Electromyography and Its Applications (Springer, 2012), and Electromyography: Physiology, Engineering, and Noninvasive Applications (co-editor with P. Parker, Wiley-IEEE Press, 2004).
DARIO FARINA is Professor and Founding Director of the Institute for Neurorehabilitation Systems at the University Medical Center Göttingen, Georg-August University, Göttingen, Germany. Prof. Farina was the lead editor for *Introduction to Neural Engineering for Motor Rehabilitation* (Wiley-IEEE Press, 2013).

IEEE Press Series on Biomedical Engineering

For additional product details, please visit https://www.wiley.com/en-us