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## Applications, Challenges, and Advancements in Electromyography Signal Processing

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### Applications, Challenges, and Advancements in Electromyography Signal Processing

Ganesh R. Naik



Part of the Advances in Medical Technologies and Clinical Practice Book Series

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Electromyography (EMG) is a procedure for assessing and recording the electrical activity produced by skeletal muscles. Since the contracting skeletal muscles are greatly responsible for loading the bones and joints, information about the muscle EMG is important to gain knowledge about muscular-skeletal biomechanics.

**Applications, Challenges, and Advancements in Electromyography Signal Processing** provides an updated overview of signal processing applications and recent developments in EMG from a number of diverse aspects and various applications in clinical and experimental research. Presenting new results, concepts, and further developments in the field of EMG signal processing, this publication is an ideal resource for graduate and post-graduate students, academicians, engineers, and scientists in the fields of signal processing and biomedical engineering.

#### Topics Covered:

- Applications in Electromyography (EMG)
- Electromyography Signal Processing
- Gesture Recognition
- Joint Biometrics
- Motion Analysis
- Muscle Fatigue
- Source Localization

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