



Li Hu, Zhiguo Zhang (Eds.)

EEG Signal Processing and Feature Extraction

- Thoroughly discussing the concepts and methods in EEG signal processing and feature extraction
- Providing the cutting-edge developments in EEG analysis
- Illustrating the applications of the advanced techniques in various research fields
- With ample illustrations

This book presents the conceptual and mathematical basis and the implementation of both electroencephalogram (EEG) and EEG signal processing in a comprehensive, simple, and easy-to-understand manner. EEG records the electrical activity generated by the firing of neurons within human brain at the scalp. They are widely used in clinical neuroscience, psychology, and neural engineering, and a series of EEG signal-processing techniques have been developed. Intended for cognitive neuroscientists, psychologists and other interested readers, the book discusses a range of current mainstream EEG signal-processing and feature-extraction techniques in depth, and includes chapters on the principles and implementation strategies.

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