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Soggetti	Computational intelligence Neurology Biomedical engineering Signal processing Image processing Speech processing systems Bioinformatics User interfaces (Computer systems) Computational Intelligence Neurology Biomedical Engineering and Bioengineering Signal, Image and Speech Processing Computational Biology/Bioinformatics User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1.Introduction -- 2.Analysis of Electroencephalogram (EEG) using ANN -- 3.Classification and Analysis of EEG using SVM and MRE -- 4. Intelligent Technique to Identify Epilepsy Captures Using Fuzzy System -- 5.Analysis of EEG to find Alzheimer's disease using Intelligent Techniques.
Sommario/riassunto	This book highlights a new biomedical signal processing method of extracting a specific underlying signal from possibly noisy multi- channel recordings, and shows that the method is suitable for

extracting independent components from the measured electroencephalogram (EEG) signal. The system efficiently extracts memory spindles and is also effective in Alzheimer seizures. Current developments in computer hardware and signal processing have made it possible for EEG signals or “brain waves” to communicate between humans and computers – an area that can be extended for use in this domain.
