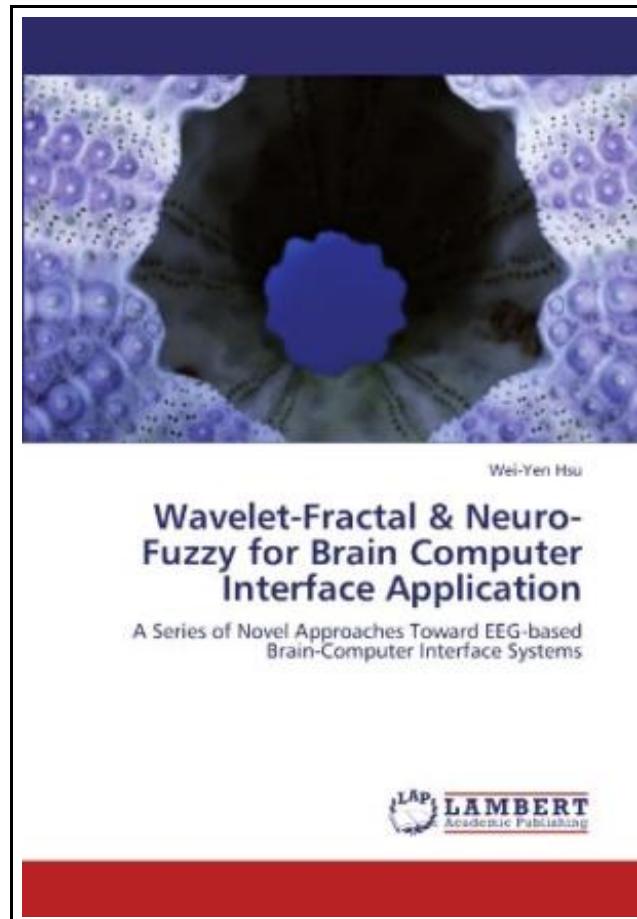


Wavelet-Fractal Neuro-Fuzzy for Brain Computer Interface Application



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WAVELET-FRACTAL NEURO-FUZZY FOR BRAIN COMPUTER INTERFACE APPLICATION

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LAP LAMBERT Academic Publishing. Paperback. Book Condition: New. Paperback. 104 pages. Dimensions: 8.7in. x 5.9in. x 0.2in. The ultimate objective of brain-computer interface (BCI) is to provide humans an alternative communication channel allowing direct transmission of messages from the brain to a computer by analyzing the brains mental activities. The BCI is usually described that a person has the ability to communicate with others without the prerequisite of brains normal output pathways of peripheral nerves and muscles by controlling his own electroencephalographic (EEG) signals. In BCI applications, the performance and reliability of mental task analysis greatly depend on feature extraction and representation. In this book, a series of methods are proposed, including t-test-weighted time-scale plot, active segment selection, multiresolution fractal feature vector (MFFV) associated with genetic algorithm (GA), and neuro-fuzzy time-series prediction to effectively extract, select, and represent features for better classification accuracy. Compared to other well-known approaches, the experimental results show that the proposed methods are superior on both real finger movement and motor-imagery (MI) data for BCI applications. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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