1. | | |
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   | Record Nr. | UNIBAS000012996 |
   | Autore | Vasoin, Gigi |
   | Titolo | La Signoria dei Carraresi nella Padova del '300 / Gigi Vasoin |
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   | Descrizione fisica | 218 p. : ill. ; 24 cm. |
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   | Autore | Akay Metin |
   | Titolo | Nonlinear biomedical signal processing . Volume 1 Fuzzy logic, neural networks, and new algorithms / / edited by Metin Akay |
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[Piscataqay, New Jersey] : , : IEEE Xplore, , [2000] |
   | Descrizione fisica | 1 PDF (276 pages) : illustrations (some color) |
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Applications (B. Bouchon-Meunier). Applications of Fuzzy Clustering to Biomedical Signal Processing and Dynamic System (A. Geva). Neural Networks: A Guided Tour (S. Haykin). Neural Networks in Processing and Analysis of Biomedical Signals (H. Nazeran & K. Behbehani). Rare Event Detection in Genomic Sequences by Neural Networks and Sample Stratification (W. Choe, et al.). An Axiomatic Approach to Reformulating Radial Basis Neural Networks (N. Karayiannis). Soft Learning Vector Quantization and Clustering Algorithms Based on Reformulation (N. Karayiannis). Metastable Associative Network Models of Neuronal Dynamics Transition During Sleep (M. Nakao & M. Yamamoto). Artificial Neural Networks for Spectroscopic Signal Measurement (C.-W. Lin, et al.). Applications of Feed-Forward Neural Networks in the Electrogastrogram (Z. Lin & J. Chen). Index. About the Editor.

| Sommario/riassunto | For the first time, eleven experts in the fields of signal processing and biomedical engineering have contributed to an edition on the newest theories and applications of fuzzy logic, neural networks, and algorithms in biomedicine. Nonlinear Biomedical Signal Processing, Volume I provides comprehensive coverage of nonlinear signal processing techniques. In the last decade, theoretical developments in the concept of fuzzy logic have led to several new approaches to neural networks. This compilation delivers plenty of real-world examples for a variety of implementations and applications of nonlinear signal processing technologies to biomedical problems. Included here are discussions that combine the various structures of Kohenen, Hopfield, and multiple-layer "designer" networks with other approaches to produce hybrid systems. Comparative analysis is made of methods of genetic, back-propagation, Bayesian, and other learning algorithms. Topics covered include: . Uncertainty management. Analysis of biomedical signals. A guided tour of neural networks. Application of algorithms to EEG and heart rate variability signals. Event detection and sample stratification in genomic sequences. Applications of multivariate analysis methods to measure glucose concentration Nonlinear Biomedical Signal Processing, Volume I is a valuable reference tool for medical researchers, medical faculty and advanced graduate students as well as for practicing biomedical engineers. Nonlinear Biomedical Signal Processing, Volume I is an excellent companion to Nonlinear Biomedical Signal Processing, Volume II: Dynamic Analysis and Modeling. |