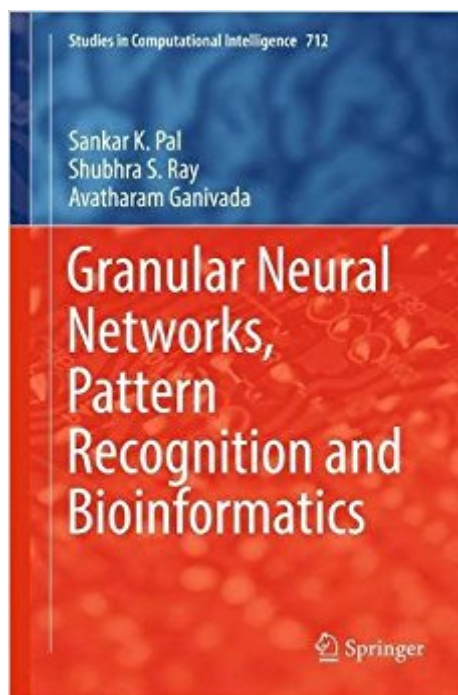




Ebook Directory
the best source of ebook

The book was found

Granular Neural Networks, Pattern Recognition And Bioinformatics (Studies In Computational Intelligence)



Synopsis

This book provides a uniform framework describing how fuzzy rough granular neural network technologies can be formulated and used in building efficient pattern recognition and mining models. It also discusses the formation of granules in the notion of both fuzzy and rough sets. Judicious integration in forming fuzzy-rough information granules based on lower approximate regions enables the network to determine the exactness in class shape as well as to handle the uncertainties arising from overlapping regions, resulting in an efficient and speedy learning with enhanced performance. Layered network and self-organizing analysis maps, which have a strong potential in big data, are considered as basic modules. The book is structured according to the major phases of a pattern recognition system (e.g., classification, clustering, and feature selection) with a balanced mixture of theory, algorithm, and application. It covers the latest findings as well as directions for future research, particularly highlighting bioinformatics applications. The book is recommended for both students and practitioners working in computer science, electrical engineering, data science, system design, pattern recognition, image analysis, neural computing, social network analysis, big data analytics, computational biology and soft computing.

Book Information

Series: Studies in Computational Intelligence (Book 712)

Hardcover: 227 pages

Publisher: Springer; 1st ed. 2017 edition (May 31, 2017)

Language: English

ISBN-10: 3319571133

ISBN-13: 978-3319571133

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #696,713 in Books (See Top 100 in Books) #192 in Books > Computers & Technology > Computer Science > Bioinformatics #220 in Books > Textbooks > Computer Science > Artificial Intelligence #535 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Intelligence & Semantics

Customer Reviews

This book provides a uniform framework describing how fuzzy rough granular neural network technologies can be formulated and used in building efficient pattern recognition and mining models.

It also discusses the formation of granules in the notion of both fuzzy and rough sets. Judicious integration in forming fuzzy-rough information granules based on lower approximate regions enables the network to determine the exactness in class shape as well as to handle the uncertainties arising from overlapping regions, resulting in an efficient and speedy learning with enhanced performance. Layered network and self-organizing analysis maps, which have a strong potential in big data, are considered as basic modules. The book is structured according to the major phases of a pattern recognition system (e.g., classification, clustering, and feature selection) with a balanced mixture of theory, algorithm, and application. It covers the latest findings as well as directions for future research, particularly highlighting bioinformatics applications. The book is recommended for both students and practitioners working in computer science, electrical engineering, data science, system design, pattern recognition, image analysis, neural computing, social network analysis, big data analytics, computational biology and soft computing.

[Download to continue reading...](#)

Granular Neural Networks, Pattern Recognition and Bioinformatics (Studies in Computational Intelligence) Neural Networks for Beginners: An Easy-to-Use Manual for Understanding Artificial Neural Network Programming Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems (Computational Neuroscience Series) MATLAB Deep Learning: With Machine Learning, Neural Networks and Artificial Intelligence Emotional Intelligence: Why You're Smarter But They Are More Successful (Emotional intelligence leadership, Emotional Quotient, emotional intelligence depression, emotional intelligence workbook) 300+ Mathematical Pattern Puzzles: Number Pattern Recognition & Reasoning (Improve Your Math Fluency) Virus Infections of Rodents and Lagomorphs: Virus Infections of Vertebrates Series, 1e (Machine Intelligence and Pattern Recognition) Bioinformatics Biocomputing and Perl: An Introduction to Bioinformatics Computing Skills and Practice Principles of Neural Science, Fifth Edition (Principles of Neural Science (Kandel)) Algorithms in Bioinformatics: A Practical Introduction (Chapman & Hall/CRC Mathematical and Computational Biology) Jane's Aircraft Recognition Guide Fifth Edition (Jane's Recognition Guides) An Introduction to Bioinformatics Algorithms (Computational Molecular Biology) From Neural Networks and Biomolecular Engineering to Bioelectronics (Electronics and Biotechnology Advanced (Elba) Forum Series) Machine Learning: For Beginners: Definitive Guide for Neural Networks, Algorithms, Random Forests and Decision Trees Made Simple (Machine Learning, Book 1) Emotional Intelligence: 3 Manuscripts - Emotional Intelligence Definitive Guide, Mastery, Complete Step by Step Guide (Social Engineering, Leadership, ... (Emotional Intelligence Series Book 4) Fundamentals of Artificial Neural Networks (MIT Press) Rapid Penetration into Granular Media:

Visualizing the Fundamental Physics of Rapid Earth Penetration Transplantation of Neural Tissue
into the Spinal Cord (Medical Intelligence Unit) Pattern Recognition and Machine Learning
(Information Science and Statistics) Improve Your Chess Pattern Recognition: Key Moves and
Motifs in the Middlegame

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)