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   Descrizione fisica   1 online resource (1,023 pages)

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   Soggetti   Computational intelligence
                         Optical data processing
                         Data mining
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                         Computer Imaging, Vision, Pattern Recognition and Graphics
                         Data Mining and Knowledge Discovery

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   Note generali   Includes index.

   Nota di contenuto   Feature Selection using NSGA-II for Event Extraction on Genetic and
                         Molecular Mechanisms Involved in Plant Seed Development -- An
                         Improved Data Hiding Scheme through Image Interpolation --
                         Generalization Of Multi-bit Encoding Function based Data Hiding
                         Scheme -- A Study on Reversible Image Watermarking Using Xilinx
                         System Generator -- Statistical Analysis of the UNSW-NB15 Dataset for
                         Intrusion Detection -- Singer Identification using MFCC and CRP
                         features with Support Vector Machines -- Numerical Integration based
                         Contrast Enhancement using Simpson's Method -- Empirical Analysis
                         of Proximity Measures in Machine Learning -- Music Tagging and
                         Similarity Analysis for Recommendation System -- Elastic Window for
                         Multiple Face Detection and Tracking from Video -- Efficient Energy
                         Management in Microgrids using Flower Pollination Algorithm --
                         Automatic Multilingual System from Speech.

   Sommario/riassunto   This book presents practical development experiences in different
                         areas of data analysis and pattern recognition, focusing on soft
                         computing technologies, clustering and classification algorithms, rough

set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.