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	Nota di contenuto	Face Recognition Using 2DPCA and ANFIS Classifier -- Optimization of Mechanical Properties of Wood Dust Reinforced Epoxy Composite Using Grey Relational Analysis -- Weight Computation of Alternatives in a Decision Making Problem by Preference Relation -- RBHR: Region-Based Hybrid Routing Protocol for Wireless Sensor Networks Using AI Technique -- Trajectory Control of a Ball on a Ball and Plate System Using Cascaded PD Controllers tuned by PSO -- Image Encryption Using Chaotic Maps with a Double Key Protection -- Parameter Optimization of Winner-Take-All circuit for Attention Shift Using Drosophila Food-search Algorithm -- Hybrid-ACO Chaos assisted Support Vector Machines for Classification of Medical Datasets -- Analysis of Hybrid Temperature Control for Nonlinear Continuous Stirred Tank Reactor -- A Fuzzy Logic Approach for Multistage Defects Density Analysis of Software -- Vehicle Classification Using Adaptive Neuro Fuzzy Inference System (ANFIS) -- Real Time Hand Tracking for Dynamic Gesture Recognition -- An Approach to Emotion Identification

Using Human Gait -- Enhanced Accident Detection System Using Safety Application for Emergency in Mobile Environment: SafeMe -- Accelerated Shuffled Frog-leaping Algorithm -- A Study on Various Attacks of TCP/IP and Security Challenges in MANET Layer Architecture -- SVD Watermarking : Particle Swarm Optimization of Scaling Factors to Increase the Quality of Watermark -- An Image Steganography Method Using Spread Spectrum Technique -- Digitization of Library: Engineering Colleges -- Differential Shuffled Frog Leap Algorithm -- Role of Particle Swarm Optimization in Computer Games -- How Improvements in Glowworm Swarm Optimization can Solve Real Life Problems -- Cryptanalysis of Transposition Cipher Using Hill Climbing and Simulated Annealing -- Classification of Error Correcting Coded Data Using Multidimensional Feature Vectors -- A Virtualized Architecture for Secure Database Management in Cloud Computing -- Incorporating Phase Information for Efficient Glaucoma Diagnoses through Hyper-analytic Wavelet Transform -- Optimization of Livestock Feed by Blend of Linear Programming and SOMGA -- Earthquake Data Sorting with Minimum Swap Operations -- Hybrid Memetic Algorithm For FPGA Placement and Routing Using Parallel Genetic Tunneling -- An Add-on to Present Banking: M-Banking -- Migration in Bio-geography Based Optimization -- Optimization of Parameters and Its Effect on Size of ZnO Nanoparticle Synthesized by Sol-Gel Method -- A Differential Evolution Approach for Solving Integer Programming Problems -- Liver Disease Diagnosis Using Quantum Based Binary Neural Network Learning Algorithm -- Gaussian Process Regression to Predict Incipient Motion of Alluvial Channel -- Analytical and Numerical Solutions of 2-Dimensional Brusselator System by Modified Variational Iteration Method -- Impact of Climate Change on Regionalization Using Fuzzy Clustering -- A Hybrid Performance Evaluation Approach for Supplier Selection under Fuzzy Environment -- Transportation Decision Making through Logistics Outsourcing and 3PL selection in an Integrated Closed Loop Supply Chain -- Fuzzy Optimization Approach to Supply Chain Distribution Network for Product Value Recovery -- A Novel Approach for Evaluating Web Crawler Performance Using Content Relevant Metrics -- Enhanced Web Crawler Design to Classify Web Documents Using Contextual Metadata -- Selected Bit Replacement Steganography Over SMQT Pre-processed Digital Image -- A State-of-the-art Review of Biogeography-Based Optimization -- On Some Generalized Fuzzy Continuous Functions.- Some New Results on Domination in Fuzzy Graphs -- AP-NSGA-II : An Evolutionary Multi-objective Optimization Algorithm Using Average-point Based NSGA-II -- Hybrid Active and Passive Control of a Server Room Noise: A Comparative Study of Results Obtained byUsing Different Algorithms -- Hybridize Particle Swarm Optimization with Invasive Weed Optimization for Solving Nonlinear Constrained Optimization Problems -- Some Fixed Point (Vertex) Theorems in Fuzzy Graph Metric Space -- Characterization of Chi-topological Modules -- An Intermediate Non-polynomial Spline Algorithm for Second Order Non-linear Differential Problems: Applications to Physiology and Thermal Explosion -- Effects of Lysogenic and Lytic Path of Bacteriophage on the Co-existence of Bacteria and Bacteriophage.

Sommario/riassunto

This two volume book is based on the research papers presented at the 4th International Conference on Soft Computing for Problem Solving (SocProS 2014)and covers a variety of topics, including mathematical modelling, image processing, optimization methods, swarm intelligence, evolutionary algorithms, fuzzy logic, neural networks, forecasting, medical and healthcare, data mining, etc. Mainly the emphasis is on Soft Computing and its applications in diverse areas.

The prime objective of this book is to familiarize the reader with the latest scientific developments in various fields of Science, Engineering and Technology and is directed to the researchers and scientists engaged in various real-world applications of 'Soft Computing'.