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Descrizione fisica	1 online resource (616 p.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 335
Disciplina	006.3
Soggetti	Computational intelligence Signal processing Artificial intelligence Computational Intelligence Signal, Speech and Image Processing Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Solving the 0-1 Knapsack Problem Using Genetic Algorithm - Teaching Learning Based Optimization Algorithms -- Cluster Head Selection Using Modified ACO -- Comparison of Soft Computing Techniques for Modelling Resistance Spot Welding Process -- A Fuzzy Multi-Criteria Decision Making Model for Green Electrical Discharge Machining -- Two Warehouse Reverse Logistic Inventory Model for Deteriorating Item under Learning Effect -- An Integrated Approach of Logarithmic Transformation and Histogram Equalization for Image Enhancement -- Genetic Algorithms, a Nature-Inspired Tool: Review of Applications in Supply Chain Management -- Data Mining in Market Segmentation: A Literature Review and Suggestions -- Cuckoo Search Optimization for Job Shop Scheduling Problem -- Artificial Neural Network Technique for the Solution of Non-Linear Elliptic Boundary Value Problems -- Scene Classification Using Fuzzy Uncertainty Texture Spectrum -- Parikh Matrices and Words over Ternary Alphabet -- Neuro-Genetic Approach to Predict Scour Depth around Vertical Bridge Abutment -- Rough

Fuzzy Classification for Class Imbalanced Data -- Mind Reading by Face Recognition Using Security Enhancement Model -- Enhancement of Power Transfer capability of HVDC Transmission System Using Fuzzy Logic Controller -- Optimization of Clustering in SPIN and LEACH for Data Centric Wireless Sensor Network -- Application of Genetic Algorithm in Optimization of Hydrodynamic Bearings -- Diversity Based Dual Population Genetic Algorithm (DPGA): A Review -- Speed Control of Multilevel Inverter Based Induction Motor Using v/f Method -- Application of New Hybrid Harmony Search Algorithms Based on Cellular Automata Theory for Solving Magic Square Problems -- A Survey on Imaging Based Breast Cancer Detection -- Automated Cervical Cancer Detection Using Pap Smear Images -- Background Subtraction Algorithm for Moving Object Detection Using SAMEER-TU Dataset -- Internet of Things: RouteSearch Optimization Applying Ant Colony Algorithm & Theory of Computation -- Multi-objective Optimization of Knitted Fabric Comfort and Ultraviolet Radiation Protection by Evolutionary Algorithm -- Optimal Product Design of Textile Spinning Industry Using Simulated Annealing -- Contrast Restoration of Fog-Degraded Image Sequences -- Optimization of Primary Loop Pump Power of a Loop Type Liquid Metal Fast Breeder Reactor with Annular Fuel Using Genetic Algorithm -- Recent Advances on Erythrocyte Image Segmentation for Biomedical Applications -- Optimization Models for Solid Waste Management in Indian Cities: A Study -- Hybridization of Self Organizing Migrating Algorithm with Quadratic Approximation and Non Uniform Mutation for Function Optimization -- Identification of Single and Double Jersey Fabrics Using Proximal Support Vector Machine -- Dynamic Modelling & Simulation of Induction Motor Drives -- Design of PID and FOPID Controllers tuned by Firefly Algorithm for Magnetic Levitation System -- Distance Based analysis for Base Vector Selection in Mutation Operation of Differential Evolutionary Algorithm -- A Novel Chemo-inspired Genetic Algorithm for Economic Load Dispatch with Valve Point Loading Effect -- Engineering Design Optimization Using hybrid (DE-PSO-DE) Algorithm -- Predicting the Risk of Extinction of Species: Impact of Negative Growth Rate and Allee Effect -- Demonstration of Improved Performance of a 4-level DSEP to Enhance the Efficiency in Heterogeneous Wireless Sensor Networks -- Control of Two Link 2-DOF Robot Manipulator Using Fuzzy Logic Techniques: A Review -- Selection of Material under Conflicting Situation Using Simple Ratio Optimization Tech -- An Investigation into Use of Different Soft Artificial Intelligence Techniques in Mechanical Engineering Domain -- On solving Multi-objective Quadratic Programming Problems in a Probabilistic Fuzzy Environment -- Partial Commutation on Some Classes of 2D Picture Languages -- Dynamic Stability Enhancement of PowerSystem Using Intelligent Power System Stabilizer -- An Analytical Study of Ordered Weighted Geometric Averaging Operator on Web Data Set as a MCDM Problem -- A Nicheing Co-swarm Gravitational Search Algorithm for Multi-modal Optimization -- Comparing Rapid Sort with some existing Sorting Algorithms -- An Ensemble Wrapper Feature Selection for Credit Scoring.

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'.
