

1. Record Nr.	UNINA9910299680803321
Titolo	Proceedings of Fourth International Conference on Soft Computing for Problem Solving [[electronic resource]] : SocProS 2014, Volume 1 // edited by Kedar Nath Das, Kusum Deep, Millie Pant, Jagdish Chand Bansal, Atulya Nagar
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2015
ISBN	81-322-2217-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (616 p.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5357 ; ; 335
Disciplina	006.3
Soggetti	Computational intelligence Signal processing Image processing Speech processing systems Artificial intelligence Computational Intelligence Signal, Image and Speech 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: Route Search 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
Power System 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'.
