

1. Record Nr.	UNINA9910299714903321
Titolo	Proceedings of the Second International Conference on Soft Computing for Problem Solving (SocProS 2012), December 28-30, 2012 [[electronic resource] /] / edited by B. V. Babu, Atulya Nagar, Kusum Deep, Millie Pant, Jagdish Chand Bansal, Kanad Ray, Umesh Gupta
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2014
ISBN	81-322-1602-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (1529 p.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5357 ; ; 236
Disciplina	006.3
Soggetti	Computational intelligence Signal processing Image processing Speech processing systems Algorithms Computational Intelligence Signal, Image and Speech Processing Algorithm Analysis and Problem Complexity
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.
Nota di contenuto	Insulin Chart Prediction for Diabetic Patients Using Hidden Markov Model (HMM) and Simulated Annealing Method -- A Single Curve Piecewise Fitting Method for Detecting Valve Stiction and Quantification in Oscillating Control Loops -- Feed Point Optimization of Fractal Antenna using GRNN-GA Hybrid Algorithm -- Diversity Maintenance Perspective: An Analysis of Exploratory Power and Function Optimization in Context of Adaptive Genetic Algorithms -- Use of Ant Colony System in Solving Vehicle Routing Problem with Time Window Constraints -- Energy Saving Model for Sensor Network Using Ant Colony Optimization Algorithm -- Multi-objective Optimization of PID Controller for Coupled Tank Liquid Level Control System Using Genetic Algorithm -- Comparative Performance Analysis of Particle Swarm Optimization and Interval Type-2 Fuzzy Logic based TCSC Controller Design -- Improved Parallelization of an Image Segmentation Bio-

inspired Algorithm -- A Novel Hardware/Software Partitioning technique for System-on-Chip in Dynamic Partial Reconfiguration Using Genetic Algorithm -- Solving School Bus Routing Problem Using Hybrid Genetic Algorithm: A Case Study -- Taguchi based Tuning of Rotation Angles and Population Size in Quantum-inspired Evolutionary Algorithm for Solving MMDP -- Simultaneous Feature Selection and Extraction Using Fuzzy-Rough Sets -- A Fuzzy Programming Approach for Bi-level Stochastic Programming -- Implementation of Intelligent Water Drops Algorithm to Solve Graph Based Travelling Salesman Problem -- Optimization of Complex Mathematical Functions Using a Novel Implementation of Intelligent Water Drops Algorithm -- A New Centroid Method of Ranking for Intuitionistic Fuzzy Numbers -- Solution of Multi Objective Linear Programming Problems in Intuitionistic Fuzzy Environment -- Analyzing Competitive Priorities for Machine Tool Manufacturing Industry: ANP Based Approach -- A Modified Variant of RSA Algorithm for Gaussian Integers -- Neural Network and Statistical Modeling of Software Development Effort -- On -convex Multivalent Functions Defined by Generalized Ruscheweyh Derivatives Involving Fractional Differential Operator -- A New Expected Value Model for the Fuzzy Shortest Path Problem -- Existence and Uniqueness of Fixed Point in Fuzzy Metric Spaces and Its applications -- Variable Selection and Fault Detection Using a Hybrid Intelligent Water Drop Algorithm -- Air Conditioning System with Fuzzy Logic and Neuro Fuzzy Algorithm -- Improving the Performance of the Optimization Technique Using Chaotic Algorithm -- New Reliable Algorithm for Fractional Harry Dym Equation -- Floating Point based Universal Fused Add-Subtract Unit -- New Analytical Approach for Fractional Cubic Nonlinear Schrödinger Equation via Laplace Transform -- An Investigation on the Structure of Super Strongly Perfect Graphs on Trees -- A Novel Approach for Thin Film Flow Problem via Homotopy Analysis Sumudu Transform Method -- Buckling and Vibration of Non-homogeneous Orthotropic Rectangular Plates with Variable Thickness Using DQM -- A Dual SBM Model with Fuzzy Weights in Fuzzy DEA -- Ball Bearing Fault Diagnosis Using Continuous Wavelet Transforms with Modern Algebraic Function -- Engineering Optimization Using SOMGA -- Goal Programming Approach to Transshipment Problem -- An Efficient Solution to Multiple Non-Linear Regression Model with Interaction Effect Using TORA and LINDO -- On the Fekete-Szegö Problem for Certain Subclass of Analytic Functions -- Bi-Objective Scheduling on Parallel Machines in Fuzzy Environment -- Inventory Model for Decaying Item with Continuously Variable Holding Cost and Partial Backlogging -- The Value of Product Life-cycle for Deteriorating Items in a Closed Loop under the Reverse Logistics Operations -- A Fuzzified Production Model with Time Varying Demand under Shortages and Inflation -- A Partial Backlogging Inventory Model for Decaying Items, Considering Stock and Price Dependent Consumption Rate in Fuzzy Environment -- Efficient Protocol Prediction Algorithm for MANET Multimedia Transmission under JF Periodic Dropping Attack -- New Placement Strategy for Buffers in Critical Chain -- Inducing Fuzzy Association Rules with Multiple Minimum Supports for Time Series Data -- RGA Analysis of Dynamic Process Models under Uncertainty -- Steps towards Web Ubiquitous Computing -- Estimation of Uncertainty Using Entropy on Noise Based Soft Classifiers -- Location Management in Mobile Computing Using Swarm Intelligence Techniques -- Genetic Algorithm Based Optimization of Material Removal Rate with Surface Finish Constraints in Abrasive Water Jet Cutting of Carbon-Epoxy Composites -- Fingerprint and Minutiae Points Technique -- Optimization Problems in Pulp and Paper

Industries -- Integrating ERP with E-Commerce: A New Dimension towards Growth for Micro, Small & Medium Scale Enterprises in India -- A New Heuristic for Disassembly Line Balancing Problems With AND/OR Precedence Relations -- A New Approach to Rework in Merge Production Systems -- An Iterative Marching with Correctness Criterion Algorithm for Shape from Shading Under Oblique Light Source -- Enhancement of Mean Shift Tracking through Joint Histogram of Color and Color Coherence Vector -- A Rubric based Assessment of Student Performance Using Fuzzy Logic -- Representation and Classification of Medicinal Plants: A Symbolic Approach based on Fuzzy Inference Technique -- Fractal Image Compression Using Dynamically Pipelined GPU Clusters -- Person Identification using Components of Average Silhouette Image -- Modified LSB Method Using New Cryptographic Algorithm for Steganography -- TDAC: Co-expressed Gene Pattern Finding Using Attribute Clustering -- An Introduction to Back Propagation Learning and Its Application in Classification of Genome Data Sequence -- Sobel-fuzzy Technique to Enhance the Detection of Edges in Grayscale Images Using Auto-Thresholding -- Hesitant k-Nearest Neighbor (HK- nn) Classifier for Document Classification and Numerical Result Analysis -- Lower Bound on Naïve Bayes Classifier Accuracy in Case of Noisy Data -- A Neuro-fuzzy Approach to Diagnose and Classify Learning Disability -- A Review of Hybrid Machine Learning Approaches in Cognitive Classification -- "A Safer Cloud", Data Isolation and Security by Tus-Man Protocol -- Poem Classification Using Machine Learning Approach -- Novel Class Detection in Data Streams -- Analyzing Random Forest Classifier with Different Split Measures -- Text Classification Using Machine Learning Methods -- A Survey -- Weka Based Classification Techniques for Offline Handwritten Gurmukhi Character Recognition -- An Efficient Fingerprint Indexing Scheme -- Gait Biometrics: An Approach to Speed Invariant Human Gait Analysis for Person Identification -- XML based Authentication to handle SQL Injection -- Observation Probability in Hidden Markov Model for Credit Card Fraudulent Detection -- Comparative Study of Feature Reduction and Machine Learning Methods for Spam Detection -- Generation of Key Bit-streams Using Sparse Matrix-vector Multiplication for Video Encryption -- Steganography based Secure Communication -- Hierarchy of Communities in Dynamic Social Network -- SLAOCMS: A Layered Architecture of SLA Oriented Cloud Management System for Achieving Agreement during Resource Failure -- Semantic Search in E-Tourism Services: Making Data Compilation Easier -- Deep Questions in the "Deep or Hidden" Web -- Combined and Improved Framework of Infrastructure as a Service (IAAS) and Platform as a Service (PAAS) in Cloud Computing -- Website Reorganization based on Topology and Usage Patterns -- Web Search Personalization Using Ontological User Profiles -- Autonomous Computation Offloading Application for Android Phones using Cloud -- Optimizing Battery Utilization and Reducing Time Consumption in Smartphones Exploiting the Power of Cloud Computing -- On Clustering of DNA Sequence of Olfactory Receptors Using Scaled Fuzzy Graph Model -- Linear Hopfield Based Optimization for Combined Economic Emission Load Dispatch Problem -- Soft Computing Approach for VLSI Min-Cut Partitioning: The State of the Arts -- Multimedia Classification Using ANN Approach -- Live Traffic English Text Monitoring Using Fuzzy Approach -- Digital Mammogram and Tumour Detection Using Fractal Based Texture Analysis: A Box-Counting Algorithm -- Approaches of Computing Traffic Load for Automated Traffic Signal Control: A Survey -- Comparative Analysis of Neural Model and Statistical Model for Abnormal Retinal Image

Segmentation -- An Efficient Training Dataset Generation Method for Extractive Text Summarization -- Online Identification of English Plain Text Using Artificial Neural Network -- Novel Approach to Predict Promoter Region (NAPPR) based on Short Range Interaction between DNA Sequences. "Eco-Computation": A Step towards more Friendly Green Computing -- A Comparative Study of Performance of Different Window Functions for Speech Enhancement -- Methods for Estimation of Structural State of Alkali Feldspars -- Iris Recognition System Using Local Features Matching Technique -- Fast and Accurate Face Recognition Using SVM and DCT -- Multi-temporal Satellite Image Analysis Using Gene Expression Programming -- An Advanced Approach of Face Alignment for Gender Recognition Using PCA -- Analysis of Pattern Storage Network with Simulated Annealing for Storage and Recalling of Compressed Image Using SOM -- Non-rigid Image Registration of Brain MR Images Using Normalized Mutual Information -- A Proposal for Deployment of Wireless Sensor Network in Day-to-day Home and Industrial Appliances for a Greener Environment -- Energy-Aware Mathematical Modelling of Packet Transmission through Cluster Head from Unequal Clusters in WSN -- Evaluation of Various Battery models for Bellman Ford Ad-hoc Routing Protocol in VANET Using Qualnet -- A Comparative Analysis of Emotion Recognition from Stimulated EEG Signals -- Propagation Delay.

Sommario/riassunto

The present book is based on the research papers presented in the International Conference on Soft Computing for Problem Solving (SocProS 2012), held at JK Lakshmipat University, Jaipur, India. This book provides the latest developments in the area of soft computing and covers a variety of topics, including mathematical modeling, image processing, optimization, swarm intelligence, evolutionary algorithms, fuzzy logic, neural networks, forecasting, data mining, etc. The objective of the book is to familiarize the reader with the latest scientific developments that are taking place in various fields and the latest sophisticated problem solving tools that are being developed to deal with the complex and intricate problems that are otherwise difficult to solve by the usual and traditional methods. The book is directed to the researchers and scientists engaged in various fields of Science and Technology.
