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Nota di contenuto	R. Kumari, A. Nigam and S. Pushkar, Classification of MRI images for detecting Alzheimer Disease using Convolutional Neural Network -- S. D. Godwal and S. S. Kanojia, Optimum over Current Relays Coordination for Radial Distribution Networks Using Soft-Computing Techniques -- Priyavada and B. Kumar, A Review of Modified Particle Swarm Optimization Method -- D. Patel and S. Sharma Automated Detection of Elephant Using AI Techniques -- P. Rajak and P. Roy, Determination of Probability of Failure of Structures Using DBSCAN and Support Vector Machine -- Md. Nayer and S. C. Pandey, The Ensemble of Ant Colony Optimization and Gradient Descent Technique for Efficient Feature Selection and Data Classification -- A. K. Prasad and S. S. Thakur, s-Regularity Via Soft Ideal -- K. A. Pattani and S. Gautam, A Comprehensive Study on Mobile Malwares: Mobile Covert Channels - Threats and Security -- F. Nikbakhtsarvestani, Overview of Incorporating Nonlinear Functions into Recurrent Neural Network Models -- Sangita A. Jaju, Sudhir B. Jagtap, and R. Shinde, A Soft

Computing Approach for Predicting and Categorising Learner's Performance using Fuzzy Model -- T. Kaur Bhatia, A. Kumar, M.K. Sharma, and S.S. Appadoo, A Fuzzy Logic based Approach to Solve Interval Multiobjective Nonlinear Transportation Problem: Suggested Modifications -- O. Castillo and P. Melin, Interval Type-3 Fuzzy Decision Making in Material Surface Quality Control -- F. A. Khan, J. Ali, Fatimah N. Albishi, and F. Gursoy, A Generalized Nonlinear Quasi-Variational-Like Inclusion Problem Involving Fuzzy Mappings -- B. Kohli, Approximate Optimality Conditions via Convexifactors for Multiobjective Programming Problems -- F. Mirdamadi, H. Monfared, Mehdi Asadi, and H. Soleimani, A Remark on Discontinuity of Fixed Point on Partial Metric Spaces -- A. Priya, A. Kumari and M. Singh, Implementation of Fuzzy Logic in Home Appliances -- S. Banerjee, B. Guha, A. Ghosh, and G. Bandyopadhyay, Portfolio Structure of Debt Mutual Funds in Indian Market -- R. Om Gayathri and R. Hemavathy, Fixed Point Theorems for Digital Images using Path Length Metric -- R. P. Verma, N. Kumar, S. Kumar, and Sruthi S., Emergency Help for Road Accidents -- E. Arul, S. Akash Kumar, R. Ragul, and Yuvaanesh V.B., Music Classification Based on Lyrics and Audio by using Machine Learning -- S. Khalil and U. M. Modibbo, Multiobjective Optimization for Hospital Nurse Scheduling Problem -- Z. Ghoul, On the Performance of a Flow Energy Harvester using Time Delay -- A. Badran, Identification of Some Spatial Coefficients in Some Engineering Topics -- U. Bhagirathi and R. Ajoodha, Automatic Venue Allocation for Varying Class Sizes using Scoring and Heuristic Hill-climbing -- N. K. Sharma, S. Kumar, A. Rajpal, and N. Kumar, DWT and Quantization based Digital Watermarking Scheme using Kernel OS-ELM -- P. Muralikrishna, P. Hemavathi, and K. Palanivel, Stress Level Analysis Using Bipolar Picture Fuzzy Set -- Y. Kimura and K. Shindo, Asymptotic Behavior of Resolvents on Complete Geodesic Spaces with General Perturbation Functions.

Sommario/riassunto

This book collects papers presented at the Virtual International Conference on Soft Computing, Optimization Theory and Applications (SCOTA 2021), held at the Birla Institute of Technology, Mesra, Ranchi, India, from 26–27 March 2021. Topics discussed in the book are on fuzzy logic, neural networks and optimization algorithms, as well as their hybrid combinations, and their application in areas such as intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction and optimization of complex problems. The book highlights research on: (a) hybrid intelligent systems based on soft computing, new concepts and algorithms based on fuzzy logic and their applications, (b) theory and practice of meta-heuristics in different areas of application, (c) applications of fuzzy logic, (d) neural networks and hybrid intelligent systems in medical applications, (e) neural networks and optimization and evolutionary algorithms and their different applications and (f) applications of fuzzy logic, neural networks and meta-heuristics in pattern recognition problems. Some papers contain applications background like approximate solution of fractional differential equations via fixed-point algorithms and applications to equilibrium problems and image deburring problems. The book will be of great use to students, researchers and scientists in computer science, optimization and engineering, and those interested on computational intelligence and soft computing and their applications. .
