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Nota di contenuto	Chapter 1. A Sensor Based Mechanism for Controlling Mobile Robots with ZigBee -- Chapter 2. A Two-warehouse Inventory Model with Exponential Demand under Permissible Delay in Payment -- Chapter 3. Effect of Outlier Detection on Clustering Accuracy and Computation Time of CHB K-means Algorithm -- Chapter 4. A Pragmatic Delineation on Cache Bypass Algorithm in Last Level Cache (LLC) -- Chapter 5. Effect of Physiochemical Properties on Classification Algorithms for Kinases Family -- Chapter 6. A Fuzzy Knowledge Based Sensor Node Appraisal Technique for Fault Tolerant Data Aggregation in Wireless Sensor Networks -- Chapter 7. A Novel Recognition of Indian Bank Cheques Using Feed Forward Neural Network -- Chapter 8. Resource Management and Performance Analysis of Model-Based Control System Software Engineering Using AADL -- Chapter 9. Performance Evaluation of Rule Learning Classifiers in Anomaly Based Intrusion Detection -- Chapter 10. Evaluation of Faculty Performance in Education System

Using Classification Technique in Opinion Mining Based on GPU -- Chapter 11. A Constraint Based Question Answering over Semantic Knowledge Base -- Chapter 12. ACONN – A Multicast Routing Implementation -- Chapter 13. Artificial intelligence (AI) Based Object Classification Using Principal Images -- Chapter 14. Signature Verification Using Rough Set Theory Based Feature Selection -- Chapter 15. Protein Sequence Classification Based on N-gram and K-Nearest Neighbour Algorithm -- Chapter 16. Harmony Search Algorithm Based Optimal Tuning of Interline Power Flow Controller for Congestion Management -- Chapter 17. Investigation of Broadband Characteristics of Circularly Polarized Spidron Fractal Slot Antenna Arrays for Wireless Application -- Chapter 18. A Fuzzy Logic Based Finite Element Analysis for Structural Design of a 6 Axis Industrial Robot -- Chapter 19. The Design and Development of Controller Software for ScanDF Receiver Subsystem (Simulator) Using Embedded RTOS -- Chapter 20. Problem Solving Process for Euler Method by Using Object Oriented Design Method -- Chapter 21. Intelligent TCSC for Enhancement of Voltage Stability and Power Oscillation Damping of an Off Grid -- Chapter 22. Weighted Matrix Based Reversible Data Hiding Scheme Using Image Interpolation -- Chapter 23. Enhanced iLEACH Using ACO Based Inter-cluster Data Aggregation -- Chapter 24. Evaluating Seed Germination Monitoring System By Application of Wireless Sensor Networks: A Survey -- Chapter 25. A FLANN Based Non-linear System Identification for Classification and Parameter Optimization Using Tournament Selective Harmony Search -- Chapter 26. Heart Disease Prediction System Evaluation Using C4.5 Rules and Partial Tree -- Chapter 27. Prediction Strategy for Software Reliability Based on Recurrent Neural Network -- Chapter 28.< A New Approach to Fuzzy Soft Set Theory and Its Application in Decision Making -- Chapter 29. Design of Optimized Multiply Accumulate Unit Using EMBR Techniques for Low Power Applications -- Chapter 30. Decrease in False Assumption for Detection Using Digital Mammography -- Chapter 31. Test Case Prioritization Using Association Rule Mining and Business Criticality Test Value -- Chapter 32. Nearest neighbour with priority Based Recommendation Approach to Group Recommender System -- Chapter 33. Image Super Resolution Reconstruction Using Wavelet Transformation Based Genetic Algorithm -- Chapter 34. Implementation of Operating System Selection Using AHP-Entropy Model -- Chapter 35. Modified Firefly Algorithm (MFA) Based Vector Quantization for Image Compression -- Chapter 36. Performance Analysis of Selected Data Mining Algorithms on Social Network Data and Discovery of User Latent Behavior -- Chapter 37. DE Optimized PID Controller with Derivative Filter for AGC of Interconnected Restructured Power System -- Chapter 38. Opposition-based GA Learning of Artificial Neural Networks for Financial Time Series Forecasting -- Chapter 39. Evolving Low Complex Higher Order Neural Network Based Classifiers for Medical Data Classification -- Chapter 40. Analysis of ECG Signals Using Advanced Wavelet Filtering Approach -- Chapter 41. Fast Multiplication with Partial Products Using Quaternary Signed Digit Number System -- Chapter 42. A Mathematical Model for Optimization of Perishable Resources with Uniform Decay -- Chapter 43. Server Consolidation with Minimal SLA Violations -- Chapter 44. Predicting Consumer Loads for Improved Power Scheduling in Smart Homes -- Chapter 45. Prevention of Wormhole Attack Using Identity Based Signature Scheme in MANET -- Chapter 46. Optimization of Surface Grinding Process Using Jaya Algorithm -- Chapter 47. BITSMSSC: Brain Image Tomography Using SOM with Multi SVM Sigmoid Classifier -- Chapter 48. Non-Linear Classification Using Higher Order Pi-Sigma

Neural Network and Improved Particle Swarm Optimization: An Experimental Analysis. .

Sommario/riassunto

The book is a collection of high-quality peer-reviewed research papers presented in the Second International Conference on Computational Intelligence in Data Mining (ICCIDM 2015) held at Bhubaneswar, Odisha, India during 5 – 6 December 2015. The two-volume Proceedings address the difficulties and challenges for the seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. The book addresses different methods and techniques of integration for enhancing the overall goal of data mining. The book helps to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and computational intelligence, along with some current issues and applications of related topics.