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Nota di contenuto	1. Improvement in Hungarian Algorithm for Assignment Problem -- 2. Vertex Cover Problem - Revised Approximation Algorithm -- 3. A Simple Control Strategy Technique for a Single Phase Bridgeless Active Rectifier with High Power Factor and Voltage Stabilization Using Partial Digital Implementation -- 4. Ensemble Neural Network Algorithm for Detecting Cardiac Arrhythmia -- 5. An Efficient Invasive Weed Optimization Algorithm for Distribution Feeder Reconfiguration and Loss Minimization -- 6. Implementation of Generative Crossover Operator in Genetic Algorithm to Solve Traveling Salesman Problem -- 7. A 4-bit 9KS/s Distortionless Successive Approximation ADC in 180nm CMOS Technology -- 8. EEG Based Automatic Detection of Drowsy State -- 9. WIDS-Real Time Intrusion Detection System Using Entrophical Approach -- 10. Optical Character Recognition for Alphanumeric Character Verification in video Frames -- 11. Modified-AODV Routing Protocol for Multi-Hop Cognitive Radio Ad Hoc Networks

-- 12. Theoretical Framework of the Algorithm to Thwart MAC Spoofing DoS Attack in Wireless Local Area Infrastructure Network -- 13. PCA Based Feature Selection for MRI Image Retrieval System Using Texture Features -- 14. A Survey of Location Prediction Using Trajectory Mining -- 15. Survey on Router Policies providing Fairness and Service Differentiation favoring Real Time Data Transfers in Internet -- 16. Exploration of the Effect of Demographic and Clinical Confounding Variables on Results of Voxel-Based Morphometric Analysis in Schizophrenia -- 17. A Novel Method for Secure Image Steganography -- 18. Techniques for Enhancing the Performance of TCP in Wireless Networks -- 19. Analysis of Classification Models Using Image Statistics and Data Miner for Grade Prediction of Astrocytoma -- 20. Object Detection in Cluttered Environment Using 3D Map -- 21. Smart Energy Meter with Instant Billing and Payment -- 22. GA Based Compiler Parameter Set Tuning -- 23. An Intelligent Intrusion Detection System Using Average Manhattan Distance Based Decision Tree -- 24. Intelligent Medical Diagnosis System Using Weighted Genetic and New Weighted Fuzzy C-Means Clustering Algorithm -- 25. Security Analysis in Cloud Environment -- 26. A Bi-Level Clustering Analysis for Studying About The Sources of Vehicular Pollution In Chennai -- 27. Investigation of Fault Detection Techniques for an Industrial Pneumatic Actuator Using Neural Network-DAMADICS Case Study -- 28. Design of Portable Security System Using Face Recognition with Back-Propagation Algorithm and MATLAB -- 29. Model Based Control for Moisture in Paper Making Process -- 30. Elimination of Harmonics in Seven Level Cascaded Multilevel Inverter Using Particle Swarm Optimization Technique -- 31. Optimization and Quality of Service Protocols in VANETs : A Review -- 32. Object Detection Using Robust Image Features -- 33. Service Adaptive Fuzzy-Multi Criteria Based Intelligent Vertical Handover Decision Algorithm for Heterogeneous Wireless Networks -- 34. Automatic Traffic Classification Using Machine Learning Algorithm for Policy Based Routing in UMTS-WLAN Interworking -- 35. Sequential Decision Making Using Q Learning Algorithm for Diabetic Patients -- 36. Design of Quantum Cost and Delay Optimised Reversible Wallace Tree Multiplier Using Compressors -- 37. A Novel Authentication Framework for Hadoop -- 38. Fuzzy ART Based User Behavior Trust in Cloud Computing -- 39. Semi-supervised Learning Algorithm for Online Electricity Data Streams -- 40. An Efficient Continuous Speech recognition System for Dravidian Languages Using Support Vector Machine -- 41. Video Surveillance Tracking System Using LabVIEW and Matlab -- 42. Stroke Detection in Brain Using CT Images -- 43. Preemptive Appliances Scheduling in Smart Home Using Genetic Algorithm -- 44. Credible Secure Data Aggregation in Wireless Sensor Networks -- 45. Zumkeller Labeling Algorithms for Complete Bipartite Graphs and Wheel Graphs -- 46. An Unidentified Location-Based Efficient Routing Protocol in VANET -- 47. A Secure and Efficient Binding Update Scheme with Decentralized Design for Next Generation IP Mobility -- 48. Stego with Color Cue -- 49. Analysis Secure Seed Based Sturdy OTP via Convenient Carry-On Device -- 50. A (t, n) Secure Sum Multiparty Computation Protocol Using Multivariate Polynomial Secret Sharing Scheme -- 51. Small World Particle Swarm Optimizer for Real World Optimization Problems -- 52. A Comparative Study of Feature Ranking Methods in Recognition of Handwritten Numerals -- 53. Performance Evaluation of Pet Image Reconstruction Using Radial Basis Function Networks -- 54. Clustering for Knowledgeable Web Mining -- 55. Effective Path Discovery Among Clusters for secure transmission of Data's in MANET -- 56. Quality of Service Analysis of AOMDV and AOMDV-MIMC Routing Protocols for

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Sommario/riassunto

The book is a collection of high-quality peer-reviewed research papers presented in Proceedings of International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAES 2014) held at Noorul Islam Centre for Higher Education, Kumaracoil, India. These research papers provide the latest developments in the broad area of use of artificial intelligence and evolutionary algorithms in engineering systems. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.
