1. Record Nr. UNISA996464510003316

Titolo	Advances in computing and data sciences : 5th international conference, ICACDS 2021, Nashik, India, April 23-24, 2021, revised selected papers, part I / / edited by Mayank Singh [and five others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-81462-9
Descrizione fisica	1 online resource (771 pages)
Collana	Communications in Computer and Information Science ; ; v.1440
Disciplina	004
Soggetti	Information theory Data structures (Computer science) Machine learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part I -- Contents - Part II -- An Energy-Efficient Hybrid Hierarchical Clustering Algorithm for Wireless Sensor Devices in IoT -- 1 Introduction -- 2 Related Study -- 3 Clustering in WSN -- 4 Research Methodology -- 4.1 Creating Wireless Sensor Based IoT Environment: -- 4.2 Hybrid Hierarchical Clustering Approach (HHCA) -- 4.3 Fuzzy C-Means (FCM) Clustering Approach -- 4.4 Reliable Cluster-Based Energy-Aware Routing (RCER) Protocol -- 5 Experimental Results and Analysis -- 6 Conclusion -- References -- Fund Utilization Under Parliament Local Development Scheme: Machine Learning Base Approach -- 1 Introduction -- 2 Literature Review -- 3 Methodology -- 3.1 Data -- 3.2 Data Pre-processing -- 3.3 Methodology -- 3.4 Basic Statistics -- 3.5 Association Rule-To Identify Relationship -- 4 Result -- 5 Discussion -- 6 Conclusion and Future Scope -- References -- Implementing Automatic Ontology Generation for the New Zealand Open Government Data: An Evaluative Approach -- 1 Introduction -- 2 Related Work -- 3 Proposed Methodology -- 3.1 Process Flow and Architecture -- 3.2 SPARQL Interface to Query the Generated Ontology -- 4 Case Study -- 5 Discussion -- 6 Conclusion and Future Work -- References -- Blockchain Based Framework to Maintain Chain of Custody (CoC) in a

Forensic Investigation -- 1 Introduction -- 2 Related Work -- 3 The Proposed Framework -- 3.1 Hyperledger Fabric and Blockchain Network -- 3.2 Consensus Mechanism -- 3.3 PKI System and Distributed Storage -- 3.4 Investigators Role -- 4 Open Research Directions -- 5 Conclusion -- References -- Parameters Extraction of the Double Diode Model for the Polycrystalline Silicon Solar Cells -- 1 Introduction -- 2 Literature Review -- 3 Proposed PV System -- 3.1 Modeling of Proposed PV Double Diode Configurations -- 4 Results and Discussion -- 5 Conclusion.
References -- A Light SRGAN for Up-Scaling of Low Resolution and High Latency Images -- 1 Introduction -- 2 Related Work -- 3 Method -- 3.1 Network Architecture -- 3.2 Adversarial Component -- 3.3 Loss Functions -- 3.4 Feature Extraction -- 4 Experiment -- 4.1 Data Used -- 4.2 Training Details -- 4.3 Analysis -- 5 Conclusion -- References -- Energy Efficient Clustering Routing Protocol and ACO Algorithm in WSN -- 1 Introduction -- 2 Related Works -- 3 Proposed Work -- 3.1 Clustering Formation in the Proposed Wireless Sensor Network -- 3.2 Route Discovery Using ACO -- 3.3 Routing Using Cluster and ACO-Based Routing Algorithm -- 3.4 Route Maintenance -- 4 Results and Discussions -- 5 Conclusion -- References -- Efficient Social Distancing Detection Using Object Detection and Triangle Similarity -- 1 Introduction -- 2 Problem Definition -- 3 Scope of the Project -- 4 Literature Survey -- 5 Proposed Solution -- 6 Proposed System Flow Diagram -- 7 Methodology Employed -- 7.1 Person Detection -- 7.2 Pixel to Inch Conversion -- 7.3 Bird's Eye View -- 7.4 Triangle Similarity -- 7.5 Distance Calculation -- 8 Results -- 9 Conclusion -- 10 Future Work -- References -- Explaining a Black-Box Sentiment Analysis Model with Local Interpretable Model Diagnostics Explanation (LIME) -- 1 Introduction -- 2 Literature Survey -- 3 Materials and Methods -- 3.1 Data Sources -- 3.2 Data Preparation -- 3.3 Deep Learning Model Using Bidirectional LSTM -- 4 Results -- 4.1 Model Performance -- 4.2 Local Interpretable Model Diagnostics Explanation (LIME) -- 5 Conclusion -- 6 Future Scope -- References -- Spelling Checking and Error Corrector System for Marathi Language Text Using Minimum Edit Distance Algorithm -- 1 Introduction -- 1.1 Minimum Edit Distance Algorithm Preliminaries -- 2 Related Work -- 3 Methodology and Implementation -- 3.1 Levenshtein Distance Algorithm.
3.2 Computing Methods -- 3.3 Factors Affecting the Cost -- 4 Result and Discussion -- 4.1 Error Analysis of Proposed Algorithm -- 5 Conclusion and Future Scope -- References -- A Study on Morphological Analyser for Indian Languages: A Literature Perspective -- 1 Introduction -- 2 Literature Review -- 2.1 Natural Language Processing -- 2.2 Indian Languages -- 2.3 Malayalam -- 2.4 Sanskrit -- 2.5 Morphology -- 2.6 Morphological Analyser -- 2.7 Root Dictionary -- 3 Different Python Packages for Morphological Analysis -- 3.1 INLTK (Natural Language Toolkit for Indian Languages) -- 3.2 Polyglot -- 4 Comparative Study of Existing Morphological Analyzer for Indian Languages -- 5 Related Works -- 5.1 Hybrid Approach -- 5.2 Finite State Transducer -- 5.3 Suffix Stripping -- 5.4 Rule Based Approach -- 6 Research Gaps and Novelty -- 6.1 Need of Morphological Analysis -- 7 Conclusion -- References -- Cyber Safety Against Social Media Abusing -- 1 Introduction -- 1.1 Aims and Objectives of the Research -- 2 Literature Survey -- 3 Limitations in Existing Systems -- 4 Solutions to Limitations -- 5 Proposed System -- 5.1 System Architecture -- 5.2 Algorithms Used -- 6 Results -- 7 Conclusion -- References -- Predictive Rood Pattern Search for Efficient Video Compression -- 1 Introduction -- 2 Literature Survey -- 3

Motivation -- 4 Block-Based Motion Estimation -- 4.1 Block Matching Parameters -- 4.2 Complexity Reduction Step -- 5 Classification of Videos Based on Speed -- 6 Proposed Methodology -- 6.1 Neighbourhood Selection Step -- 6.2 Suggested Methodology -- 7 Results and Discussion -- 8 Conclusion -- References -- An Effective Approach for Classifying Acute Lymphoblastic Leukemia Using Hybrid Hierarchical Classifiers -- 1 Introduction -- 2 Similar Systems -- 3 Datasets -- 4 Morphological Analysis of the Cells -- 5 The Proposed System -- 6 The Modules.
7 Hybrid Hierarchical Classifiers -- 8 The Classification System -- 9 Result Analysis -- 10 Conclusions -- References -- Abnormal Blood Vessels Segmentation for Proliferative Diabetic Retinopathy Screening Using Convolutional Neural Network -- 1 Introduction -- 2 Related Works -- 3 Proposed Model -- 3.1 Image Pre-processing -- 3.2 Feature Extraction -- 3.3 Convolution Neural Network -- 4 Results and Discussions -- 5 Conclusion -- References -- Predictive Programmatic Classification Model to Improve Ad-Campaign Click Through Rate -- 1 Introduction -- 2 Data Preparation -- 3 Proposed Encoding Scheme -- 4 Results and Validation -- 5 Conclusion -- References -- Live Stream Processing Techniques to Assist Unmanned, Regulated Railway Crossings -- 1 Introduction -- 2 Related Work -- 3 System Architecture -- 4 Object Detection Algorithms -- 4.1 Single-Shot Detectors for High Inference Speeds -- 4.2 Two-Stage Detectors for High Localization and Object Recognition Accuracy -- 4.3 State-of-the-art Detectors -- 5 Results and Discussion -- 5.1 Evaluation Metrics -- 5.2 Existing Results and Discussion -- 5.3 Experiment Results -- 6 Conclusion and Future Work -- References -- Most Significant Bit-Plane Based Local Ternary Pattern for Biomedical Image Retrieval -- 1 Introduction -- 1.1 Literature Survey -- 1.2 Main Contribution -- 2 Local Patterns -- 2.1 Local Binary Patterns (LBP) -- 2.2 Local Ternary Patterns (LTP) -- 3 Methodology -- 3.1 Neighboring Pixel Decomposition -- 3.2 Local Bit-Map Transformation -- 3.3 MSBPLTP -- 3.4 Feature Vector Calculation -- 3.5 Similarity Measurement criteria -- 4 Results and Observation -- 4.1 Experiment 1 -- 4.2 Experiment 2 -- 5 Conclusion -- References -- Facial Monitoring Using Gradient Based Approach -- 1 Introduction -- 2 Related Work -- 3 Proposed Method -- 3.1 Enter Data in Database -- 3.2 Face Recognition.
3.3 Face Matching -- 3.4 Face Monitoring -- 4 Experimental Results -- 5 Conclusion -- References -- Overlapped Circular Convolution Based Feature Extraction Algorithm for Classification of High Dimensional Datasets -- 1 Introduction -- 2 Literature Survey -- 3 Proposed System Design -- 4 Experimental Setup and Evaluation -- 5 Conclusion -- References -- Binary Decision Tree Based Packet Queuing Schema for Next Generation Firewall -- 1 Introduction -- 1.1 Key Points of Next Generation Firewall -- 1.2 Binary Decision Tree Algorithms -- 1.3 Packet Queuing Schema -- 2 Proposed Model -- 3 Experiments and Results -- 3.1 Experimental Phase 1 -- 3.2 Experimental Phase 2 -- 3.3 Time Efficiency -- 4 Conclusion and Future Work -- References -- Automatic Tabla Stroke Source Separation Using Machine Learning -- 1 Introduction -- 2 Literature Survey -- 3 Proposed System -- 4 Experiments and Results -- 5 Conclusion -- References -- Classification of Immunity Booster Medicinal Plants Using CNN: A Deep Learning Approach -- 1 Introduction -- 2 Literature Review -- 3 Proposed Methodology -- 3.1 Dataset Collection -- 3.2 Data Preprocessing -- 3.3 Convolutional Neural Network -- 3.4 Proposed Model -- 3.5 Training the Model -- 4 Performance Evaluation -- 5 Result and Discussion -- 6 Conclusion -- 7 Future Work -- References -- Machine Learning Model Interpretability in NLP and Computer Vision

Applications -- 1 Introduction -- 2 Literature Review and Proposed Work -- 2.1 Natural Language Processing (NLP) -- 2.2 Computer Vision -- 3 Conclusion -- References -- Optimal Sizing and Siting of Multiple Dispersed Generation System Using Metaheuristic Algorithm -- 1 Introduction -- 2 Literature Work -- 3 Problem Formulation -- 3.1 Active Power Loss [12] -- 3.2 Voltage Deviation -- 3.3 Voltage Stability Index -- 3.4 Objective Function -- 3.5 System Constraints.
4 Optimization Techniques.