

1. Record Nr.	UNINA9910497103403321
Autore	Shakya Subarna
Titolo	Mobile Computing and Sustainable Informatics : Proceedings of ICMCSI 2021
Pubbl/distr/stampa	Singapore : , : Springer Singapore Pte. Limited, , 2021 ©2022
ISBN	981-16-1866-6
Descrizione fisica	1 online resource (864 pages)
Collana	Lecture Notes on Data Engineering and Communications Technologies Ser. ; ; v.68
Altri autori (Persone)	BestakRobert PalanisamyRam KamelKhaled A
Soggetti	Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Preface -- Acknowledgements -- Contents -- About the Editors -- Mitigating the Latency Induced Delay in IP Telephony Through an Enhanced De-Jitter Buffer -- 1 Introduction -- 1.1 Problem Formulation -- 2 Relevant Works -- 3 VOIP Technique and Network Structure -- 3.1 Media Gateways and Call Managers -- 3.2 Topologies -- 3.3 Session Initiation Protocol (SIP) -- 3.4 SIP Elements -- 4 Limitations -- 5 The Proposed Solution -- 5.1 Modification in De-Jitter Buffer -- 6 Results and Analysis -- 7 Conclusion -- References -- A Cyber-Safety IoT-Enabled Wearable Microstrip Antenna for X-Band Applications -- 1 Introduction -- 2 Existing Approach -- 3 Antenna Design -- 3.1 Antenna Configuration -- 3.2 Antenna Performance -- 3.3 Simulated Results -- 3.4 Measured Results -- 4 Conclusion and Future Work -- References -- Keyword Recognition from EEG Signals on Smart Devices a Novel Approach -- 1 Introduction -- 2 Materials and Methods -- 2.1 Overview -- 2.2 Data Acquisition -- 2.3 Data Preprocessing -- 3 Feature Extraction -- 3.1 DWT Feature Extraction -- 3.2 FFT Feature Extraction -- 3.3 Feature Fusion -- 3.4 Dimensionality Reduction -- 3.5 Command Map Table and Task Observer Thread -- 3.6 Tools and Software -- 4 Classifiers Used -- 4.1 SVM Classifier -- 4.2 KNN Classification -- 4.3 CNN Classifier -- 4.4</p>

Random Forest -- 4.5 Performance Measure -- 5 Results and Discussion -- 6 Conclusion -- References -- Security Analysis for Sybil Attack in Sensor Network Using Compare and Match-Position Verification Method -- 1 Introduction -- 2 Sybil Attack and Security -- 2.1 WSN on Security Attacks -- 2.2 Sybil the Attack -- 3 Compare with Match-Position and Verification of Method -- 4 Message Authentication and Passing (MAP) -- 5 Result and Discussion -- 6 Conclusion -- References -- Certain Strategic Study on Machine Learning-Based Graph Anomaly Detection.

1 Introduction -- 2 Generalized Machine Learning Approaches Towards Outlier Detection -- 2.1 Key Challenges Identified in ML Techniques -- 3 Graph-Based Anomaly Detection Methods -- 3.1 Moving Towards Graph Representation -- 3.2 Existing Graph Basis Anomaly Detection Methods (GBAD) -- 3.3 Baseline Link Analysis Ranking Algorithms -- 3.4 Structure-Based Graph Anomaly Score Through Labelling/Ranking Strategy -- 3.5 Community-Based Graph Anomaly Score Through Labelling/Ranking Strategy -- 3.6 Graph Compression Strategies -- 4 Open Challenges in GBAD -- 5 Concluding Remarks -- References -- Machine Learning Perspective in VLSI Computer-Aided Design at Different Abstraction Levels -- 1 Introduction to Machine Learning and VLSI CAD -- 2 The Basic Paradigm of Machine Learning -- 3 Areas of Machine Learning -- 4 Machine Learning Algorithms -- 5 Drawbacks of Machine Learning -- 6 Application of Machine Learning in VLSI CAD Abstraction Levels -- 6.1 Machine Learning in Automatic Generation of Assertion in RTL Design -- 6.2 Machine Learning in Chip Testing -- 6.3 Machine Learning for Physical Design Routing -- 6.4 Machine Learning in Physical Design Floor Planning -- 6.5 Machine Learning in Static Timing Analysis (STA) -- 6.6 Machine Learning in Gate-Level Netlist -- 6.7 Machine Learning in EDA and IC Design -- 7 Conclusion and Future Scope -- References -- A Practical Approach to Measure Data Centre Efficiency Usage Effectiveness -- 1 Introduction -- 2 Energy Versus Power -- 2.1 IT Load -- 2.2 Effect of Outdoor Condition -- 2.3 User Configuration -- 2.4 Product Review Analysis -- 3 Related Work -- 4 Proposed Work -- 5 Result Analysis -- 6 Conclusion -- References -- Advancing e-Government Using Internet of Things -- 1 Introduction -- 2 Social Networks and Machine Learning -- 3 Health Care -- 4 Agriculture -- 4.1 Six-Layer IoT-Based Model [4-6] (Shown in Fig. 3).

4.2 Role of Unmanned Aerial Vehicles (UAVs) -- 5 Voting -- 5.1 IoT-Based Voting Framework -- 5.2 Fingerprint Matching Algorithm -- 5.3 Security -- 6 "Smart" Government? -- 7 Future Prospects -- References -- A New Network Forensic Investigation Process Model -- 1 Introduction -- 1.1 Forensic Science -- 1.2 Network Forensics -- 1.3 Need of Network Forensics -- 2 Literature Survey -- 3 Proposed Network Forensic Investigation Process Model -- 3.1 Network Forensic Readiness Module -- 3.2 Security Incident Alert Module -- 3.3 Data Acquisition Module -- 3.4 Forensic Investigation Module -- 3.5 Presentation Module -- 4 Conclusion -- References -- MDTA: A New Approach of Supervised Machine Learning for Android Malware Detection and Threat Attribution Using Behavioral Reports -- 1 Introduction -- 2 Literature Survey -- 3 System Methodology -- 4 System Design -- 5 System Algorithm -- 5.1 Build Model Algorithm -- 5.2 Feature Extraction Algorithm -- 5.3 Prediction Algorithm -- 6 System Implementation -- 6.1 Data Flow Diagram -- 6.2 Sequence Diagram -- 7 Result Analysis -- 7.1 Accuracy of Malware Detection -- 7.2 Accuracy of Threat Attribution -- 8 Experimentation -- 9 Discussion -- 10 Conclusion -- References -- Investigating the Role of User Experience and Design in Recommender Systems: A Pragmatic

Review -- 1 Introduction -- 2 Related Work -- 3 Overview of Usability Engineering -- 4 Experimental Set-Up -- 5 Findings -- 6 Proposed Model -- 7 Conclusion -- 8 Future Scope -- References -- A Review on Intrusion Detection Approaches in Resource-Constrained IoT Environment -- 1 Introduction -- 2 Review of Intrusion Detection Frameworks for IoT -- 3 Open Issues -- 4 Discussion on Open Issues and Future Research Direction -- 5 Conclusion -- References -- Future 5G Mobile Network Performance in Webservices with NDN Technology -- 1 Introduction -- 2 Literature Review.

3 Network Testing Considered in Signal Error Detection and Correction Format -- 4 System Analysis -- 5 Enhanced System Design -- 5.1 Steps for Performance Improvements and Existing Analysis -- 5.2 Steps for Overcoming the Issues -- 5.3 Algorithm Equations and Operational Methods -- 6 Conclusion -- References -- Survey for Electroencephalography EEG Signal Classification Approaches -- 1 Introduction -- 1.1 Motivation -- 1.2 Survey Strategy and Evaluation -- 1.3 Paper Organization -- 2 Support Vector Machine for EEG Classification -- 3 Artificial Neural Network (ANN) for EEG Classification -- 4 Convolution Neural Network (CNN) for EEG Classification -- 5 K-Nearest Neighbor (K-NN) for EEG Classification -- 6 Linear Discriminant Analysis (LDA) for EEG Classification -- 7 Multi-classifier Approaches for EEG Classification -- 8 Other Models for EEG Classification -- 9 Analysis and Evaluation -- 10 Conclusion -- References -- Analysis of Road Accidents Using Data Mining Paradigm -- 1 Introduction -- 2 Data and Methods -- 2.1 Data Description -- 2.2 Apriori Algorithm -- 3 Results and Discussion -- 3.1 Road Type -- 3.2 Intoxication -- 4 Conclusions -- References -- Hybrid Approach to Cross-Platform Mobile Interface Development for IAAS -- 1 Introduction -- 2 State of the Art on IAAS -- 2.1 General Mechanism of IAAS -- 2.2 Implementation of IAAS -- 3 State of the Art on Mobile Development Approaches -- 3.1 Native Approach -- 3.2 Web Approach -- 3.3 Hybrid Approach -- 4 Comparative Study and Mobile Solution Proposition for IAAS -- 4.1 Description of the Interface to Be Developed -- 4.2 Proposed Development Approach -- 5 Implementation and Evaluation -- 5.1 Functional Needs Model and Analysis -- 5.2 Realization of the Proposition -- 5.3 Display Tests and Evaluation of the Solution -- 6 Conclusion -- References.

Self-organizing Data Processing for Time Series Using SPARK -- 1 Introduction -- 2 Problem Definition -- 3 Related Work -- 4 Proposed Work -- 5 Results and Evaluation -- 5.1 Data and Preprocessing -- 5.2 Experimental Setup -- 5.3 Results -- 6 Conclusion -- References -- An Experimental Investigation of PCA-Based Intrusion Detection Approach Utilizing Machine Learning Algorithms -- 1 Introduction -- 1.1 Kinds of IDS -- 2 Related Work -- 3 Methodology -- 3.1 Machine Learning Techniques -- 3.2 Principal Component Analysis (PCA) -- 4 Experimental Evaluation -- 4.1 Result and Discussion -- 5 Conclusion -- References -- OpenFlow-Based Dynamic Traffic Distribution in Software-Defined Networks -- 1 Introduction -- 2 Background and Related Studies -- 2.1 Software-Defined Network (SDN) and Openflow -- 2.2 Related Works -- 3 System Design and Implementation -- 3.1 System Architecture -- 3.2 Load Balancing Algorithm -- 4 Performance Evaluation and Results -- 4.1 Performance Parameters -- 4.2 Experimental Environment -- 4.3 Experimental Design -- 4.4 Experimental Results -- 5 Conclusions and Future Works -- References -- A Comparative Study of Classification Algorithms Over Images Using Machine Learning and TensorFlow -- 1 Introduction -- 1.1 Convolutional Neural Networks -- 2 Methodology -- 3 Experimental Results -- 3.1 Model Development -- 3.2 Packages Required -- 4

Conclusion -- References -- Intelligent Routing to Enhance Energy Consumption in Wireless Sensor Network: A Survey -- 1 Introduction -- 2 Wireless Sensor Networks Structure -- 3 The Approaches to Energy Consumption Management -- 3.1 Intelligent Routing Protocols -- 3.2 Duty Cycle -- 3.3 Data Manipulation -- 3.4 Based on Mobility -- 4 Discussions -- 5 Conclusions -- References -- Deep Residual Learning for Facial Emotion Recognition -- 1 Introduction -- 1.1 Background -- 2 Related Works.
3 Proposed Methodology.
