

1. Record Nr.	UNINA9910733708303321
Titolo	Smart and sustainable technologies: rural and tribal development using IoT and cloud computing : proceedings of ICSST 2021 / / Srikanta Patnaik, Roumen Kountchev, Vipul Jain, editors
Pubbl/distr/stampa	Singapore : , : Springer, , [2022] ©2022
ISBN	981-19-2277-2
Descrizione fisica	1 online resource (377 pages)
Collana	Advances in sustainability science and technology
Disciplina	006.3
Soggetti	Artificial intelligence Cloud computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Committee Members -- Preface -- Contents -- About the Editors -- IOT, Big Data and Cloud Computing -- Big Data: A Boon to Fight Against Cancer Using Map Reduce Framework -- 1 Introduction -- 2 Literature Review -- 3 Proposed Work -- 3.1 MapReduce Architecture -- 4 Conclusion -- References -- Security Attacks and Its Countermeasures in RPL -- 1 Introduction -- 2 Related Work -- 3 About RPL -- 3.1 Control Messages in RPL -- 3.2 Traffic and Modes of Operation in RPL -- 4 Attacks in RPL -- 4.1 Attacks Against Resources -- 4.2 Attacks Against Topology -- 4.3 Attacks Against Traffic -- 5 Analysis -- 6 Conclusion and Future Scope -- References -- An Optimal Policy with Parabolic Demand Carry Forwarded with Three-Parameter Weibull Distribution Deterioration Rate, Scarcity and Salvage Value -- 1 Introduction -- 2 Model Formulation -- 2.1 Assumptions -- 2.2 Notations -- 2.3 Mathematical Formulation -- 3 Numerical Examples -- 3.1 Sensitivity Analysis -- 4 Conclusion -- References -- Information Actions Use for System Activity: Action Modeling Schemas -- 1 Introduction -- 2 The Need in Information Actions Use for System Activity -- 3 Action Modeling Schemas for the Theory of Information Actions Use for System Activity -- 4 Conclusion -- References -- High Security Object Integrity and Manipulation of Conceal Information by Hiding Partition Technique

-- 1 Introduction -- 2 Requirements of Hiding Information Digitally --
3 Digital Image Forensic Techniques for Feature Extraction -- 4 Spatial
Transform Techniques -- 5 Conclusion -- References -- Performance
Evaluation of FSO Under Different Atmospheric Conditions -- 1
Introduction -- 2 Simulation Setup -- 2.1 Simulation Result
and Analysis -- 3 Conclusion -- References -- Smart Communication
-- Design and Performance Analysis of High Reliability QOS-Oriented
Adaptive Routing Protocol for MANET.
1 Introduction -- 2 MANET -- 2.1 MANETS Characteristics -- 2.2
Application Areas of MANETS -- 2.3 Link Stability -- 3 Literature Survey
-- 4 QOS-Oriented Adaptive Routing Protocol for 'MANET' -- 4.1
Formulas -- 4.2 Algorithm -- 5 Results -- 6 Conclusion -- References
-- Circular Patch Antenna with Perturbed Slots for Various Wireless
Applications -- 1 Introduction -- 2 Parameters for the Proposed Design
-- 3 Results of the Proposed Antenna -- 4 Conclusion -- References --
A Secure Handshaking AODV Routing Protocol (SHS-AODV)
with Reinforcement Authentication in MANET -- 1 Introduction -- 2 Ad
Hoc on Demand Distance Vector -- 2.1 Path Discovery -- 2.2 Reverse-
Path Setup -- 2.3 Forward-Path Setup -- 2.4 Route Table Management
-- 2.5 Path Maintenance -- 2.6 Local Connectivity Management -- 3
Literature Survey -- 4 SHS-AODV Routing Protocol -- 4.1 Key
Generation -- 4.2 Elliptic Curve Cryptographic Algorithm (Ecc) -- 4.3
Algorithm -- 5 Results -- 5.1 Simulation Environment -- 5.2
Performance Metrics -- 6 Conclusion -- References -- AI-Powered
Smart Routers -- 1 Introduction -- 2 Related Work -- 2.1 Ununified
Routing (Loosely Coupled Mono-Cum-Multi-agent Evolution Strategies)
-- 2.2 Unified Routing (Close-Coupled Single-Cum-Multi-agent
Evolution Strategies) -- 3 AI-Powered Network Routing -- 3.1
Regenerative Control Paradigm -- 3.2 Unified and Ununified AI-
Powered Networking -- 4 Brainy (SMART/Intelligent) Network -- 4.1
Unified and Ununified AI-Powered Networking -- 5 Simulation -- 6 AI-
Powered and Brainy Hardware Routers -- 6.1 Framework Design
Formulation -- 6.2 Simulation Results -- 7 Conclusion -- References
-- Modified Sierpinski Gasket Monopole Fractal Antenna for Sub 6 GHz
5G Applications -- 1 Introduction -- 2 Evaluation of Antenna Design --
3 Performance Analysis of Proposed Antenna -- 4 Performance Analysis
of Proposed Antenna -- 5 Conclusion.
References -- Design of a Dual-Ring Resonator Antenna for WBAN
Applications -- 1 Introduction -- 2 Implementation of Dual-Ring
Resonator -- 3 Results -- 4 Conclusion -- References -- Performance
Analysis of MIMO Antenna for Isolation Improvement -- 1 Introduction
-- 2 Single Antenna Design Calculations -- 3 Design of MIMO Antenna
-- 4 Analysis of the Space Diversity of MIMO Antenna -- 5 Analysis
of Prototype Orthogonal MIMO -- 6 Conclusion -- References -- Low
Power and High-Speed Full Adder with Complemented Logic
and Complemented XOR Gate -- 1 Introduction -- 2 Review of Full
Adders -- 2.1 Hybrid Full Adder [9] -- 3 Proposed Full Adder -- 3.1
Sum Output Generation Using XNOR Cell -- 3.2 Carry Output Using
XNOR Cell -- 4 Delay Analysis -- 5 4-Bit Adder -- 6 Power Analysis --
7 Conclusion -- References -- Determining the Number of Bit
Encryption That Is Optimum for Image Steganography in 8 Bit Images
-- 1 Introduction -- 2 Various Techniques of Image Steganography --
2.1 LSB Method -- 2.2 Palette-Based Technique -- 2.3 Secure Cover
Selection -- 3 Terms Used -- 4 Proposed Method -- 5 Result -- 6
Discussion -- 7 Conclusion -- References -- Design and Analysis
of 2nd-Order Bandpass Filters Using SIW and Microstrip Patch
Transitions with Stub Matching -- 1 Introduction -- 2 Design-1 -- 3
Design 2 -- 4 Results Analysis -- 5 Conclusions -- References --

Planar Split Ring Resonating Antenna Design -- 1 Introduction -- 2
Antenna Design -- 3 Simulation Results -- 4 Conclusion -- References
-- Pentagonal Microstrip Patch Antenna with Circular Slot for 9 GHz
Applications -- 1 Introduction -- 2 Design of Pentagonal Patch
with Slot -- 3 Results of the Proposed Antenna -- 4 Conclusion --
References -- Simulation and Analysis of an Optical Communication
System Implementing DCF with Various Pulse Generators -- 1
Introduction -- 2 Simulation and Design.
3 Result and Discussion -- 4 Conclusion -- References -- Simulation
and Analysis of an 8 Channel CWDM Optical Network Suitable for Smart
City Applications -- 1 Introduction -- 1.1 Multiplexing -- 1.2 DWDM
-- 1.3 CWDM -- 2 Simulation Setup -- 3 Result and Discussion -- 4
Conclusion -- References -- Design of Low-Power Dynamic Threshold
MOSFET (DTMOS) Push-Pull Inverter -- 1 Introduction -- 2 Proposed
Design and Analysis -- 3 Simulation Results -- 4 Conclusion --
References -- Epileptic Seizure Detection Using Deep Learning
Architecture -- 1 Introduction -- 2 Literature Review -- 3 Method
Initiation with Improved Techniques -- 3.1 Data Extraction -- 3.2 Data
Classification -- 4 Proposed Model -- 5 Result and Discussion -- 6
Conclusion -- References -- Ultra High Rate Inter-Satellite Optical
Wireless Transmission Using DP-QPSK -- 1 Introduction -- 2
Modulation Format and Inter-Satellite Link -- 3 Proposed Set up -- 4
Results and Discussion -- 5 Conclusion -- References -- Investigation
on Reactive Power Compensation Using STATCOM -- 1 Introduction --
2 Research Method -- 2.1 Block Description and Operational Strategy
-- 2.2 Network Description and Simulation -- 3 Results and Discussion
-- 4 Conclusion -- References -- Smart Energy Systems --
Optimization of Set-Point Deviation and Current Ripple of PMSM
by CCS-MPC Method -- 1 Introduction -- 2 PMSM Model Description --
3 Model Description of CCS-MPC Method -- 4 Results and Discussion
-- 5 Conclusion -- References -- Comparative Study, Design
and Performance Analysis of Grid-Connected Solar PV System of Two
Different Places Using PV syst Software -- 1 Introduction -- 2 Grid-
Tied PV System -- 3 Methodology -- 3.1 PV Syst Software -- 3.2 Case
Study -- 4 Input Requirement -- 4.1 Location -- 4.2 Tilt Angle -- 4.3
Albedo -- 4.4 Module and Inverter Specification -- 4.5 Economics
Analysis.
5 Simulation and Result -- 6 Conclusion -- References -- Transparent
Solar Cell: A Powerful Device of Upcoming Era -- 1 Introduction -- 2
Discussion -- 2.1 Working Principle of Transparent Solar Cells -- 2.2
Different Types of Transparent Solar Cell -- 3 Applications -- 4
Conclusion -- References -- Machine Learning Techniques
and Applications -- An Adaptive Firefly Optimization Algorithm
for Human Gait Recognition -- 1 Introduction -- 2 Framework
of the Proposed Approach -- 2.1 Gait Template Extraction -- 2.2
Introduction to Standard Firefly Algorithm (FA) -- 2.3 Adaptive Firefly
Algorithm for Feature Selection -- 2.4 Pseudo-Code of an Adaptive
Firefly Algorithm for Feature Selection -- 2.5 Combination of PCA
and LDA -- 3 Experimental Analysis -- 3.1 Parameter Setting -- 3.2
Performance Evaluation Metrics of Classification -- 3.3 Results
and Discussion -- 4 Conclusion -- References -- Job Prediction
Astrology for Using Classification Techniques in Machine Learning -- 1
Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Data Set
(HOROSCOPE) -- 3.2 Feature Extraction -- 4 Data Processing
Techniques -- 4.1 Logistic Regression -- 4.2 Naïve Bayes Classification
-- 4.3 DTNB -- 5 Experiments and Analysis -- 6 Conclusion --
References -- Developed Face and Fingerprint-Based Multimodal
Biometrics System to Enhance the Accuracy by SVM -- 1 Introduction --

1.1 Face Recognition -- 1.2 Fingerprint Recognition -- 1.3 Fusion -- 2
Literature Review -- 3 Methodology -- 3.1 Face -- 3.2 Finger -- 3.3
Principal Component Analysis -- 3.4 SVM Classifier -- 4 Result
and Experiments -- 5 Conclusion -- References -- A Survey on Deep
Learning Techniques for Anomaly Detection in Human Activity
Recognition -- 1 Introduction -- 2 Deep Learning -- 3 Methods
and Implementation -- 4 Discussions -- 5 Conclusion -- References.
Evaluation of Different Paradigms of Machine Learning Classification
for Detection of Breast Carcinoma.
