

1. Record Nr.	UNINA9911049207403321
Autore	Guha Debatosh
Titolo	Proceedings of the 4th International Conference on Signal and Data Processing : ICSDP 2024 // edited by Debatosh Guha, Swades De, Debashis Adhikari, Sivasankaran V., M. Suresh
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9510-58-9
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (596 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1470
Altri autori (Persone)	Guha
Disciplina	621.382
Soggetti	Signal processing Automatic control Robotics Automation Telecommunication Signal, Speech and Image Processing Control, Robotics, Automation Microwaves, RF Engineering and Optical Communications Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Design, Verification and Implementation of AHB5 Compliant 8k Memory for High Performance Embedded Systems -- Delay and Power analysis of ALU in 180 nm, 90 nm and 45 nm technologies -- Enhancing traffic management with deep learning: Real-time object detection and tracking -- Exploring Low-Power Digital Filter Design Techniques for System-on-Chip (SoC) Applications -- Wideband Four port MIMO Antenna for Future Generation Mobile and Automotive Radars -- Bio-Inspired Based Deep Learning Classification Approach for Detecting Dermatology Skin Cancer -- Identification of Potato Disease using Deep Neural Network Model and Image Segmentation -- Gunshot Detection Using Deep Learning and Acoustic Signal Processing for Safety of Society -- Analog Performance Evaluation of a Gate Stack Engineered Double Oxide Tunnel Field Effect Transistor -- Binary versus Multiclass CNNs for Diabetic Retinopathy Detection: A Comparative Study -- Real

Time GYM Pose Estimation and Jointanalysis Using Opencv & Mediapipe
-- Real-Time Multilingual Offensive Words Detection: Enhancing Safety
in Global Digital Spaces -- The evaluation of muscle quality using the
difference in resistance of high- and low-frequency currents in the
bioelectrical impedance analysis (BIA) method -- Design of a 1x2 MIMO
Antenna Array based on Antenna-array Decoupling Structure for
Millimeter wave Communication -- A Compact Implantable Antenna at
2.45 GHz based on Meandered slots and shorting pins for Wireless
Body Area Network -- Multiuser MIMO BC Scheduling with Channel
Quantization -- Dimensionality Reduction of Hyperspectral Images
Using Feature Extraction Methods- A Review -- Enhanced Data
Collection and Classification Algorithm for IoT Devices in Wireless
Sensor Networks -- Design and Simulation of Fractal Wearable UWB
Antenna for medical Applications -- OTP-Driven Vehicle Tracking and
Ignition Management System -- RPZMWMARK: RDWT-PZM based Image
Watermarking Scheme of DICOM Image -- Multi-Beam Design for
Reconfigurable Intelligent Surface Aided Wireless Communication --
Advancing Hate Speech Detection: A Comparative Study of Machine
Learning Models and Deep Learning Architectures with Attention
Mechanisms -- A Machine Learning Model for Solving Lane-Emden
Equation using Legendre Wavelet Neural Network -- LaneGuard: Real-
Time Detection Framework for Animals, Pedestrians, and Obstacles to
Reduce Road Accidents -- Efficient Marine Oil Spill Response Using
Restricted Vision Particle Swarm Optimization -- Efficient Lossless Text
Compression Using Matrix-Based ASCII Encoding for Optimized Data
Transmission -- Phishing Detection: Exploring Feature Representation
and Defense Strategies -- Detection and Classification of Neurological
Disorders using Machine Learning Classifiers -- Design of an efficient
Model for Stock Price Prediction using Machine Learning -- Mutual
Coupling Reduction in UWB-MIMO Antennas using Stepped Jesus Cross
Stub -- Comparative Analysis of Deep Learning Models For Person
Detection -- UAV Technology for Multi-Object Tracking And The
YOLOV8 Algorithm: A Review -- Machine Learning Driven Smart Quality
Inspection for Manufacturing -- Efficient VLSI Architecture for MIMO
Communication Implemented on FPGA -- Design of Combinational
Circuits using Quantum Cellular Automata -- Innovating Multi
Document Summerization Through Strategic Fusion.

Sommario/riassunto

This volume comprises the select proceedings of the 4th International Conference on Signal & Data Processing - ICSDP 2024. The contents focus on the latest research and developments in the field of artificial intelligence and machine learning, Internet of Things, cybernetics, robotics, advanced communication systems, VLSI and embedded systems, quantum computation, power electronics and automation, MEMS/Nanotechnology, renewable energy, bioinformatics, data acquisition and mining, antenna and RF systems, power systems, biomedical engineering, aerospace and navigation. This book contributes to disseminating innovative and standard results to researchers in engineering and technology.
