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Nota di contenuto	Wireless Communication and IoT -- IoT Enabled Child Monitoring and Control System via Web Interface -- An Efficient Rescheduling Scheme for Prioritizing Safety Messages in VANETs -- Software Defined Networking (SDN) Technologies and Architectures for Efficient, Adaptive Networks -- High Fidelity Eye Diagram Analysis in IsOWC system with Denoising Convolutional Autoencoder -- Fast converging AER-DQN framework for optimal Beamforming and Power Control in 5G Networks -- ENHANCED RNS PERFORMANCE THROUGH STRATEGIC USE OF CONJUGATE MODULI SETS -- RF and Signal processing -- A Slotted Antenna for 2.45GHz Wearable Applications -- Wide Band Circularly Polarized Slotted Microstrip Patch Antenna for Wireless Applications -- A T Slotted Compact Sized Antenna for 5G n78 band Applications -- Design of Semi Flexible Slotted Patch Antenna for Biomedical Applications -- Ultra Wide Band MIMO Antenna with Good Isolation and Band Dispensation Characteristics -- Automated Marine Mammal Classification through Acoustic Signals using Convolutional Neural Networks -- Design and Realisation of Data Acquisition System on Unmanned Platform for Underwater Application -- A Robust System for Distinguishing Natural and Whispered Speech -- VLSI System Design --

A LOW POWER AND AREA EFFICIENT LATCH BASED SHIFT REGISTER -- Design and Analysis of 32x32 12T SRAM Memory array for Low power applications -- A NOVEL METHOD FOR ESTIMATION AND FUNCTIONAL STUDY OF COMPARATOR FOR ULTRA SPEED VLSI CIRCUITS -- Design of Combinatorial LFSR for Multimode Test Applications -- Machine Learning and Deep Learning Applications -- Enhanced Bone Image Segmentation using Adamax Optimizer: Implementation and Evaluation -- Classification of Digital Mammographic Images for Breast Tumor Using AlexNet Model on DDSM and MIAS Dataset -- Crop Type Mapping using Hyperspectral Remote Sensing Image Classification -- Multi Feature Based Crop Damage Detection System using Aerial Images -- Under Water Image Stabilization and Detection using CNN -- Advancing Image Synthesis Deep Laplacian Pyramid Networks for High Quality Super Resolution -- A Robust Model for Fake Face Detection Using Deep Learning and Image Processing -- Diabetic Retinopathy image classification using Machine Learning (ML) and Deep Learning (DL) Algorithms -- Classification of Hydroponic Lettuce Leaves using Convolutional Neural Networks -- Identification and Categorization of Diabetic Retinopathy Using Modified Rider Optimization Algorithm -- A Deep Belief Network Architecture for Knee Osteoarthritis Prediction Data Deployment -- Investigating Contemporary Research and Techniques for Early Stage Diabetes Risk Prediction A Comprehensive Review -- Habitat Suitability Prediction -- Quantum inspired Fermionic Operator Representation for Interpreting Human Cognition through Smile Classification.

Sommario/riassunto

This book LNICST 619 constitutes the proceedings of the First EAI International Conference on Advanced Technologies in Electronics, Communications and Signal Processing, ICATECS 2024, held in Hyderabad, India, during July 26–27, 2024. The 65 full papers were carefully reviewed and selected from 210 submissions. They were categorized under the topical sections as follows: Wireless Communication and IoT; RF and Signal processing; VLSI System Design; Machine Learning and Deep Learning Applications.