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Autore	Cheng X (Xiaochun)
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Nota di contenuto	-- Communications, Networks and Architectures. -- SCALABLE DEEP LEARNING FOR CATEGORIZATION OF SATELLITE IMAGES. -- Mitigating Threats in PHY-Layer Authentication: A Pro-active Defense Against Membership Inference Attacks in Wireless Signal Classifiers. -- Wearable Circularly Polarized MIMO Antenna: Design and Simulation for High-Data Biomedical Sensing Devices. -- Implementation of Antenna in Satellite Ground Station for Cubesat. -- AESHA3: Efficient and Secure Sub-Key Generation for AES Using SHA-3. -- UWB Antenna with Integrated Quadruple Notch bands. -- Framework for Brute-Force attack detection using Federated Learning. -- Differential Cascode Voltage Switch Logic (DCVSL) Level Shifter with Logic Error Detection. -- Smart City Smart Grid. -- Robot for Transportation with an SMS Alert. -- Joint Design of User Association, Caching and Power

Allocation for Delay Optimization in UAV-enabled Networks. -- Low Power VLSI Architecture for Rail To Rail Dynamic Voltage Comparator. -- Enhanced Semantic Communication in 6G Networks Using DCGAN. -- An Efficient FR-1 MIMO Antenna for N78/77/48 Bands with Enhanced Isolation Using DGS. -- A Study on Efficient Approaches for Distributing Workloads Effectively in Edge Computing Systems. -- Real Time Phishing Detection using Lexical Analysis and Visual Similarity. -- Securing the Internet of Things: A Comprehensive Examination of Machine and Deep Learning Approaches against Denial of Service Attacks. -- Design of Single Cycle MIPS RISC Processor using Re-Timing Technique. -- Prediction of Crop Based On Characteristics of Agricultural Environment Using Machine Learning Techniques. -- IoT-Based Classification of COVID-19 Cases with Cardiovascular Disease Using Deep Convolutional Decision Trees. -- Communication-inspired Machine Learning (ML) for 5G/6G. -- Enhancing Maritime Safety with Deep Learning for Ship Identification. -- Implementation and Analysis of PUF Architectures for Enhanced Security. -- Smart Drowsiness Detection System with Microcontroller Integration. -- Innovative Motion Sensing System with LabVIEW. -- Supervene Bag - A Smart Luggage Carrier. -- Enhancing Finite Impulse Response (FIR) Filtering with Distributive Arithmetic (DA) and Residue Number System (RNS) Optimization.. -- A Wide Band Annular-ring loaded Circularly Polarized Microstrip Antenna. -- Design and Implementing a PCI express Serdes Block using HDL. -- Development and Realization of an FIR Filter Utilizing an Innovative RNS Form with a Dual Modular Se. -- Attack Detection in Smart Home IoT Networks: A Survey on Challenges, Methods and Analysis. -- AI based Reliable and secure data transfer in Wireless Networks.

Sommario/riassunto

This two-volume set, LNICST 601 and LNICST 602, constitutes the refereed post-conference proceedings of the 14th International Conference on Broadband Communications, Networks, and Systems, BROADNETS 2024, held in Hyderabad, India, in February 16–17, 2024. The 49 full papers presented here were carefully reviewed and selected from 122 submissions. These papers have been organized under the following topical sections in the two volumes: - Part I: Communications, Networks and Architectures; Smart City Smart Grid; Communication-inspired Machine Learning (ML) for 5G/6G. Part II: Wireless Network Security and Privacy; AI applications for 5G/6G. .