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Nota di contenuto	An Efficient Signal Detection Technique for STBC-OFDM in Fast Fading Channel -- Achieving accurate Trajectory Control while training legged robots using Machine Learning -- Relational Model and Improvised DSR Assisted Frame- work for Secure Wireless Communication -- DEEC Protocol with ACO Based Cluster Head Selection in Wireless Sensor Network -- Performance Analysis of Recovery Methods for Loss of Target in Wireless Sensor Network following TDNN Prediction Algorithm -- A Comparative Study of DWT and DCT Along with AES Techniques for Safety Transmission of Digital Bank Cheque Image -- Advancement of Non-Coherent Spectrum Sensing Technique in Cognitive Radio Networks – A Simulation-based Analysis -- Improvement of network protocol and analysis of security using aspect of cryptography -- Gaussian Mixture Model-Based Clustering for Energy Saving in WSN -- Physical Layer Security Optimisation for NOMA-based UAV

communication for Optimal Resource Allocation -- DBFEH: Design of a Deep-learning-based Bioinspired model to improve Feature Extraction capabilities of healthcare device sets -- Protecting OT Hosts with Intelligent Model-Based Defense System against Malware Families -- Design and Analysis of Wide-Planar Antenna using Meta-material for S band Applications -- Performance Comparison of IEEE 802.11ax, 802.11ac and 802.11n using Network Simulator NS3 -- Web Browser Forensics : A comparative Integrated approach on artefacts acquisition, evidence collections and analysis of Google Chrome, Firefox and Brave -- An Innovative AI Architecture for Detecting the Primary User in the Spectrum -- Power Optimization for Millimeter Wave MIMO System -- Performance Evaluation of VBF, DBR and Modified CARP for Underwater Acoustic Sensor Network -- Performance Analysis of Smart antenna in Wireless Communication System -- Low-Light Video Enhancement on a Mobile Device using Illumination-Reflection Model based Retinex Envelope.

Sommario/riassunto	This book constitutes the refereed proceedings of the 4th International Conference on Computing Science, Communication and Security, COMS2 2023, held in Gandhinagar, India, during February 6–7, 2023. The 20 full papers included in this book were carefully reviewed and selected from 190 submissions. They were organized in topical sections on artificial intelligence and machine learning; networking and communications.