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Nota di contenuto	Cyber Physical Systems and Blockchain -- Securing the Resource sharing in Meta Universities through Blockchain Technology -- Cyber Physical Systems Design Standards, Applications, Limitations, Challenges, and Future Perspectives -- A Secured Data Sharing Using Proxy Re Encryption And Blockchain In Cloud Storage -- Artificial Intelligence Cyber Physical System Platform for Industry 4.0 -- Detecting Crypto Ransomware in Encrypted File Sharing Networks -- A Secure and Efficient Cloud Storage System Using Advanced Encryption

Standard Algorithm for Data Protection -- Speech Bandwidth Extension using Spectral Data Masking -- Crime Detection with Variational Auto encoders -- Cross Layered Neighbor Route Discovery Protocol in Cognitive Radio Networks -- Quantum Technology Fueling the Next Generation Optical Communication Challenges and Pathways -- Comprehensive Analysis of Underwater Acoustic Propagation in Shallow and Deep Water -- Exploring Underwater Acoustic Propagation Based on Deep Sound Channel -- FPGA Based Peak Cancellation for Efficient Communication Transmitters -- FPGA Implementation of Fast Fourier Transform using hybrid pipelining technique -- Low Power Adder Circuit Design and Implementation using Lector Technique -- FPGA Implementation of Optimized Floating Point Multiplier using Minimal Error Logarithmic Approach -- Medical Diagnostic through Deep Learning and Assistive Technology -- Review of Various Machine Learning Approaches for Parkinsons Disease Detection -- Improving Pneumonia Diagnosis via Deep Learning A Comprehensive Approach Incorporating CNN Classification -- Advancing Ocular Health Deep Learning Technologies in Eye Disease Classification -- An Empirical Comparison of Machine and Deep Learning Algorithms for Predicting Maternal Health Risk -- An AI Powered Diagnostic Model for the Identification and Categorization of Lung and Liver Cancer -- Detection of Autism Spectrum Disorder Using Optimized Extreme Learning Machine Technique -- AI based Bone Cancer Detection using Image Preprocessing and CNN -- Liver Tumour Detection in Computed Tomography Images through Image Processing and Deep Learning -- AI Enhanced Arduino Based Customized Smart Glasses for Blind People and Integrated, Speech Synthesis -- A Breathable 1.1 oz Ripstop Nylon (BRN) Based Wearable Dry ECG sensors A Pilot Study -- Assistive New Gen Smart Blind Stick Using React -- Auto encoders with Cellular Automata for Anomaly Detection.

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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 5th EAI International Conference on Cognitive Computing and Cyber Physical Systems, IC4S 2024, held in Bhimavaram, India, during April 5-7, 2024. The 102 full papers presented were carefully reviewed and selected from 266 submissions. The proceedings focus on Cyber-physical systems, cognitive computing, Internet of Things, Smart grid, Security and trust management of CPS, Industrial IoT, Autonomous systems, Intelligent Transportation, Human-Machine Interaction, Distributed robotics, Sensor-based communication.

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