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Nota di contenuto	Natural Language Processing using Artificial Intelligence and Machine Learning -- A review of usage of Tesseract OCR engine with vernacular Indian languages -- A Hybrid Sentiment and Emotion Analysis Model for Marathi Text using Horse Herd Optimization, Bidirectional RNN, and Affective Cognitive Computing -- Dynamic E commerce Website with NLP Chatbot -- Fake News Detection using ML Algorithms -- Hate Speech Detection using Recurrent Neural Networks (RNN) -- Multi-Model Summarization On Extending T5 Transformer for Text, Audio,

and Images -- Compression Strategies for Massive Natural Language Generation Models -- Optimal Flight Ticket Price Discovery using Time Series Analysis SARIMAX Model -- Addressing Geographical Disparities in Education An Integrated E Learning Approach for Empowering Students in Diverse Regions of India -- EduEvolve An Online Tutoring Tool -- Dynamic Detection of Wild Animals Utilizing FGVC8 Images -- Dynamic Emotion Adaptive Attention Mechanism (DEAAM) -- Optimizing Crop Health Evaluating CNN Performance in Plant Disease Detection -- Transforming Education through EduBridge The Impact of an Innovative E Learning Application on India's Educational Landscape. Image and Signal Processing -- Performance Investigation on Panoramic Image Stitching Techniques -- A Comprehensive Security and Performance Analysis of Chaotic based Hybrid Image Encryption Algorithms -- Telecom Customer Churn Prediction Using Machine Learning -- An Intelligent GUI Enhancements a Robust Model for Detecting Fake News -- Big Data Analytics -- A Customized YOLO NAS Model for Vehicle Detection on Indian Roads -- Disease Based Eligibility Assessment for Health Insurance -- Generative Adversarial Networks (GANs) for drug discovery -- Exploring Tongue Print as a Biometric Authentication Feature A Promising Avenue -- VLSI Circuits and Computing -- High Performance 10T SRAM Based Decoder for 4x4 Array -- An Energy Efficient 8 Tap FIR Filter Design in 22NM DTMOS TECHNOLOGY -- Performance Comparison of 4T SRAM Cell Using Different Techniques are 32nm and 22nm Nodes for Portable Electronic Devices -- Design and Implementation of Parallel Prefix based 16-bit Kogge Stone Adder for High Speed Binary Addition -- Internet of Things and its Applications -- Real time air quality Index monitoring and prediction Using Lora communication -- Development of IOT Multilingual Voice Controlled Home Automation System -- Congestion based adaptive association mechanism for IEEE 802.11ah based large IoT network -- IADSS Integrated Agricultural Decision Support System -- Automated Assessment of Artefact Relevance Using Artefact Metadata and Correlated Timeline Events -- The Effect of Artificial Intelligence on Data Security Systems -- Cost Effective Wireless Health Monitoring with ARDUINO for Physiological Parameters -- Effective way to communicate with Divyangjan Using Morse Code -- Complex Network Articulation Points Detection and Centrality Measures -- Identifying Bikers without Helmets and Triple Riding Automatically -- Voice Based Smart System for Emotion Recognition and Regulation -- Design of Autonomous Lagori Game Playing Robotics -- Neurovision Advanced DL for Eye Disorder Detection.

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.
