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Nota di contenuto	Lecture Notes on Data Engineering and Communications Technologies -- Intelligence of Things: Technologies and Applications -- Preface -- Organization -- Contents -- Development of a Smart Crib System Using IoT and AI Technologies for Infant Safety Monitoring -- Toward Robust Speech Emotion Recognition: A Hybrid EMix-Based Augmentation Approach -- Reinforcement Learning for RAN Intelligent Controller: A Case Study on Traffic Steering -- Optimizing Email Filtering Systems: Addressing Challenges from AI-Generated Spam and Phishing -- A Deep Learning Approach for Segmenting Wire Conductor of Power Transmission Systems -- Integrating Graph Features for Social Bot Detection -- Smart Glove for Word-Level Sign Language Recognition Using Flex Sensors, Accelerometer Sensors, and Long-Short Term Memory Model -- Optimizing Beamforming for Cell-Free MIMO ISAC Systems with Low-Resolution ADCs -- APMR-CNN: A Photonic Convolutional Neural Network Based on Cascaded All-Pass Microring Resonators -- A Large-Scale Real-Time Camera Analysis AI System for the Retail Industry -- An IoT-Based Intelligent Hyperlocal Sky Condition Forecasting System for Astronomical Observatories Using Deep Learning -- Low-Complexity Variable Bandpass Filter with Simplified Stability Guarantee -- Detecting Windows Malware Using Machine Learning -- A Novel 1D Convolutional Neural Network

Architecture for Improved Pumpkin Seed Classification -- GPMHA: Gaussian Projected Quantum Multi-head Attention for Sentiment Analysis -- Face and Voice Recognition Using a Shared CoAtNet Framework: From Unimodal to Multimodal -- Blockchain Performance Benchmarking in Industrial Supply Chains: Empirical Evidence from Coal Mining -- Multimodal Deep Learning for Phishing Detection: HTML and Visual Features -- Secrecy Performance Analysis of Precoded STBC and Beamforming for Next-Generation Networks. Phi-3-Code: Fine Tuning a Small Size Language Model for Coding Generation -- Coverage-Aware Sensor Clustering for Network Lifetime Maximization in Smart Cities -- Region-Aware Multispectral Satellite Image Compression for Precision Agriculture -- A Weather-Enhanced Deep Learning Approach for Bus Passenger Demand Forecasting in Smart Bus Systems -- Benchmarking Common Machine Learning Algorithms on an Enhanced UAV Fault Dataset -- Deploying Lightweight Federated Learning on Edge Devices for Smart Healthcare -- Federated Swarm Intelligence: A Novel Framework for Collaborative Anomaly Detection in Decentralized IoT Network -- Balancing Accuracy and Efficiency: Post-training Versus Quantization-Aware Training for Multispectral Remote Sensing Models.

Sommario/riassunto

This book aims to provide state-of-the-art knowledge in the field of Intelligence of Things to both academic and industrial readers. In particular, undergraduate, graduate, and researchers may find valuable information to drive their future research.
