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Nota di contenuto	Accelerating 4K Morphological Image Operations on PYNQ-Z1 and Kria KV260 FPGA boards using the Vitis Vision Library -- Carbon Per Transistor (CPT): The Golden Formula for Green Computing Metrics -- Enhancing Cloud Incident Response: Addressing Evidence Data Collection Challenges in Cloud Environments -- Artificial Intelligence and School Dropout: A Focus on Psychosocial Factors in Predictive Models -- Enhancing Mathematics Learning for Hard-of-Hearing Students Through Real-Time Palestinian Sign Language Recognition: A New Dataset -- Tactics, Techniques, and Procedures for Improving Robot Utilization in Healthcare Monitoring A Performance Study of Deep Learning Algorithms for Solar Energy Prediction in PV Systems -- A Retrospective Evaluation of Driver Behavior Using Multimodal Large Language Models -- Revolutionizing Blockchain Scalability: A Unified Analysis of Threats, Mitigation Strategies, and Performance Optimization -- Enhancing Career Path Guidance through

Comprehensive Student Performance Analysis -- Zero Trust Architecture for Mitigating Data Leakage in Cloud Computing BTIM: A Blockchain-Based Trust and Incentive Model for Intelligent Transportation Systems (ITS) -- Dynamic Composition and Concurrency in I/O Automata: The ioa++ Framework -- Present Day Validation of Smart Contract Security Verification Standard against real world attacks -- Classification of User Consumption Data-based Consumer Profiles Using AI -- Iraqi Journalists' Use of Artificial Intelligence Applications in Newsrooms: A Survey Study -- Factors Influencing the Adoption of Artificial Intelligence by Voice-Over Artists in Jordanian Media Organizations.

Sommario/riassunto	This book presents peer-reviewed research from ISBCom 2025 that bridges intelligent systems, blockchain, communication, and data technologies to address real-world challenges. Contributions span advanced AI models for pattern recognition, NLP, computer vision, robotics, and sustainable transportation; blockchain solutions for health care, finance, identity, IoT security, and supply chains; as well as breakthroughs in 5G/6G networks, edge computing, cybersecurity, and quantum communication. Readers will also find innovative work on metaheuristics for large-scale optimization, cloud and big-data frameworks for smart cities, and applications of technology in cultural and social sciences. Designed for academics, engineers, and industry leaders, the book offers practical methods, case studies, and frameworks to guide research, teaching, and development of next-generation intelligent and decentralized technologies.