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Nota di contenuto	Exploring the Impact of Deep Learning Techniques on Evaluating Arabic L1 Readability -- Performance Analysis of Two Serial Concatenations of Decoders over a Rayleigh Channel -- Blockchain and Reputation Based Secure Service Provision in Edge-cloud Environments -- Exploring the Impact of Convolutions on LSTM Networks for Video Classification -- Classification algorithms implementation for fire prevention data on multiple wireless node sensors -- Implementation of an intelligent monitoring system based on Quality 4.0 of the Induction Hardning process -- Lithium-Ion Battery State of Charge Estimation Using Least Squares Support Vector Machine -- Intrusion Detection in Software-Defined Networking using Machine Learning Models -- Neural Network for link Prediction in social network -- Design and optimization of a

compact Microstrip band-pass filter using on open loop rectangular resonators for wireless communication systems -- YOLO-based Approach for Intelligent Apple Crop Health Assessment -- A comprehensive review on the integration of Blockchain Technology with IPFS in IoT ecosystem.

Sommario/riassunto

This book is to provide a comprehensive reference for professionals in the field of data science and applications: artificial intelligence, big data, IoT, and blockchain. In summary, this book is expected to function as a helpful resource and manual, enabling readers to navigate the intricate domain of artificial intelligence, the Internet of things (IoT), and blockchain in smart environments. This book covers many topics related to integrating AI, IoT, blockchain, and smart environments. It begins by laying a solid foundation, introducing each technology's fundamental concepts and principles. Subsequent chapters explore applications and real-world use cases, demonstrating how AI, IoT, and blockchain can effectively address critical challenges within data science and applications.
