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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2273
Disciplina	006.3
Soggetti	Computer networks Data structures (Computer science) Information theory Software engineering Artificial intelligence Computers, Special purpose Operating systems (Computers) Computer Communication Networks Data Structures and Information Theory Software Engineering Artificial Intelligence Special Purpose and Application-Based Systems Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	-- Image Processing, Classification, and Segmentation. -- Image Classification of Peach Leaves Using a Siamese Neural Network. -- Pancreas segmentation using SRGAN combined with U-Net neural network. -- Using artificial intelligence and X-ray images to train and predict COVID-19 and Pneumonia: Tool for diagnosis and treatment. -- Region of interest features and classification of MRI brain lesions.

-- Deep Learning-Based Leukemia Diagnosis from Bone Marrow Images. -- Breast thermographic image augmentation using Generative Adversarial Networks (GANs). -- Evaluating Histopathological Cancer Detection: A Comparative Analysis of CNN Architectures for Tumor Detection in Lymph Node Pathology. -- ViTSigat: Early black Sigatoka detection in banana plants using Vision Transformer. -- Automatic Parking Space Segmentation using K-means Clustering and Image Processing Techniques. -- Artificial Intelligence and Machine Learning Applications. -- Neural Agents with Continual Learning Capacities. -- Centinela: An intelligent system based on an integrated architecture for supporting scholars. -- Optimizing Predictive Models in Healthcare Using Artificial Intelligence: A Comprehensive Approach with a COVID-19 Case Study. -- Predictive Model Proposal in Telemetry using Machine Learning Techniques to anticipate Water Degradation in Aquaculture. -- Evaluation of the use of artificial intelligence techniques in the mitigation of the broadcast storm problem in FANET networks. -- Adaptation Dynamics of Galápagos Finches: Evolutionary Responses to Climate Variation Explored through Machine Learning. -- Incident Alert Priority Levels Classification in Command and Control Centre using Word Embedding Techniques. -- Physics Informed Neural Networks and Gaussian Processes-Hamiltonian Monte Carlo to solve Ordinary Differential Equations. -- IoT, Embedded Systems, and Applications in Healthcare and Industrial Environments. -- Pre-processing of the Text of ECU 911 Emergency calls. -- Secure BLE Communication between Android Devices and Embedded Systems for IoT Applications. -- Modeling and control of a Peltier thermoelectric system applying a multi-objective optimization approach. -- Wearable device for acquiring biomechanical variables applied to the analysis of occupational health risks in industrial environments. -- Spectral Analysis of Powertrain Vibration in a Hybrid Vehicle under Controlled Operating Conditions. -- Evaluation of an intelligent educational toy-game proto-type for toddlers' motor stimulation and learning. -- Changes in academic assessment due to the use of artificial intelligence.

Sommario/riassunto

This book constitutes the refereed proceedings of the 12th Ecuadorian Conference on Information and Communication Technologies, TICEC 2024, held in Loja, Ecuador, during October 16–18, 2024. The 24 full papers presented here were carefully reviewed and selected from 74 submissions. They were organized in the following topical sections: Image Processing, Classification, and Segmentation; Artificial Intelligence and Machine Learning Applications; IoT, Embedded Systems, and Applications in Healthcare and Industrial Environments.
