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Altri autori (Persone)	GualotuñaTatiana Fonseca CEfrain R Rodriguez MoralesGermania Maldonado-MahauadJorge
Disciplina	005.73 003.54
Soggetti	Data structures (Computer science) Information theory Software engineering Artificial intelligence Computers, Special purpose Operating systems (Computers) Computer networks Data Structures and Information Theory Software Engineering Artificial Intelligence Special Purpose and Application-Based Systems Operating Systems Computer Communication Networks
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Nota di contenuto	-- Artificial Intelligence and Data Science. -- Combining Synthetic Minority Over-sampling Technique and Multinomial Naive Bayes for

Sentiment Analysis on Imbalanced Social Media Datasets. -- Stance-EC: A Spanish Dataset of Political Discourse on X/Twitter for Stance Detection. -- Data Science for the Analysis and Prediction of Energy Consumption in an Industrial Processing Plant. -- Unveiling Seasonal Air Pollution Patterns with Data Mining. -- Enriching Dataset Metadata with LLMs to Unlock Semantic Meaning. -- Satellite Tile Extraction for Agricultural Monitoring Models Based on Computer Vision and Deep Learning. -- Boosting Automatic Speech Recognition Performance for Noisy Emergency Calls with Hybrid Processing Techniques. -- E-Learning. -- CARE+: A Methodology for AI-Enhanced Learning that Develops 21st Century Competencies. -- Wellness-Aware Course Allocation: A Data-Driven Framework for Assigning Subjects to University Professors. -- Implementation of LLM-based Chatbots for Academic Support in Higher Education Institutions: A Case Study. -- Automated Advisor Matching for Student Theses Using Transformer-Based Topic Modeling. -- Optimizing Learning Analytics in Serious Games: Reengineering the MIDI-am Dash-board. -- A Data Integration Framework to Support Accreditation and Strategic Evaluation in Higher Education Institutions: A Case Study in Ecuador. -- ICT Applications. -- AI-BananaMapping: A Drone-Based Remote Sensing System for the Automatic Detection of Moko and Black Sigatoka in Banana Crops. -- Air Quality Analysis in Educational Environments Through an IoT-based Monitoring System. -- State of the Art of CAPTCHA as a Security Mechanism: Current Challenges and New Perspectives in Human Identification. -- A Machine Learning and SUMO-Based Framework for CO2 Emission Prediction in Urban Areas with Web Application Deployment. -- GPT-Based Semantic Similarity Analysis for Enhanced Emergency Call Response. -- Machine Learning Algorithms for Predicting Agricultural Crop Production and Sales in Ecuador. -- Software. -- GR-orbit-toolkit: A Python-Based Software for Simulating and Visualizing Relativistic Orbits. -- A Systematic Literature Review on the Security Weaknesses of Fully Homomorphic Encryption Schemes. -- A Domain-Specific Language and Model-Based Engine for Implementing Container Infrastructures for Data Science Applications. -- Systematic Literature Review on Innovative Techniques for Malware Prevention in Superapps: A Focus on Miniapp Threats. -- Numerical Performance Analysis of the Direct and Barnes-Hut Algorithm for Solving the N-Body Problem. -- Doctoral Consortium. -- Toward an Integrated Architecture for Personalized Learning: Combining Generative AI, Gamification, and UX. -- Model-Driven Intelligent User Interfaces Using Machine Learning. -- Multimodal Framework for supporting diagnosis and intervention of excessive use of social networks by university students. -- Toward a Robust and Enhanced DevSecOps Framework. -- Cost-efficient SQL Engines for Big Data queries based on EMR Clusters. -- A Proposed Methodology for Semantic Alignment and Specialization of Pre-trained Multilingual Embeddings Using Mixture-of-Experts and Contrastive Learning for Legal Text Retrieval in Ecuador.

Sommario/riassunto

This book constitutes the refereed proceedings of the 13th Ecuadorian Conference on Information and Communication Technologies, TICEC 2025, held in Quito, Ecuador, during October 16–17, 2025. The 30 full papers included in this book were carefully reviewed and selected from 104 submissions. They were organized in topical sections as follows: Artificial Intelligence and Data Science; E-Learning; ICT Applications; Software; and Doctoral Consortium.
