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Nota di contenuto	Communications -- Hybrid Solar-Radiofrequency Energy Harvesting System for Fifth Generation 5G Terminals -- Smart Antenna Array for Optimal Electromagnetic Energy Capture -- e-Learning -- Virtual Training Module for the Production of Rubber Adhesives through the Production of Cyclopentenol -- Virtual Training Module for the Extraction of Essential Oils using a Distillation column -- Teaching Digital Competences in University professors: A meta-analysis and systematic literature review in Web of Science -- Evaluation of the Kahoot tool as an applied assessment in Physical Education learning -- Intelligent Systems -- Enhanced Books Recommendation using Clustering Techniques and Knowledge Graphs -- Handwritten signature verification system using convolutional neural network for real-time applications -- A comparison of machine learning algorithms to predict cervical cancer on imbalanced data -- An Electronic Equipment for Automatic Identification of Forest Seed Species -- Automatic Evaluation of Physiotherapy Activities Using Deep Learning Techniques -- Multivariable control approach applied to the embryo incubation process of gallus gallus domesticus -- Discovering visual deficiencies in pilots candidates using data mining -- An Electronic Equipment for Measuring Color Difference between Tissues based on Digital Image

Processing and Neural Networks -- Artificial intelligence-based banana ripeness detection -- U-Net vs. TransUNet: Performance Comparison in Medical Image Segmentation -- Access control through mask detection and estimation of people capacity in covered premises -- Customer segmentation in food retail sector: an approach from customer behavior and product association rules -- Bibliometric analysis of Web of Science database STEM fields in Engineering and Mathematics. Ecuador's case study -- Image processing method to estimate water quality parameter -- Use of the Student Engagement as a strategy to optimize online education, applying a supervised machine learning model using facial recognition -- Crime Data Analysis Using Machine Learning Models -- Machine Vision -- Gene therapy as a solution to genetic diseases through DNA manipulation -- Security -- Vulnerability of CAPTCHA systems using bots with machine vision skills -- Military Leadership in the Ecuadorian Army -- Analysis of key variables for Ecuadorian defense industry development -- The prioritization of external security as a means of guaranteeing multidimensional security and economic growth -- Comparative Study of Deep Learning Algorithms in the Detection of Phishing Attacks Based on HTML and Text Obtained from Web Pages -- Ground Robot for Research and Rescue Management -- A virtual shooting range, experimental study for military training -- Recovery of Level III Ballistic Plates by reinforcing and renewing their structural components -- Technology Trends -- A Blockchain-Based Model for OAuth Authorization via Third-Party Web Application -- A blockchain-based prototype to support the medical prescription control -- Identification system based on facial recognition services in the cloud -- ESPE-Chat: An inclusive application for people with hearing impairment -- IoT for energy saving in homes in Santo Domingo de los Tsáchilas -- Monitoring system based on an IOT platform for an axial flow permanent magnet generator -- Cyber-Physical Systems in Education: A New Approach to Continuous Improvement and Agile Learning -- Open-source platform for development of taximeters: Adjustment Software -- XiMent: Multiplatform cognitive training system based on multimedia technologies and Reminiscence methodology for the population of older adults with mild cognitive impairment -- A dataset for analysis of quality code and toxic comments -- Model-Driven Engineering Applied to User Interfaces. A Systematic Literature Review -- A model based on attitudinal factors which impact the development of technical projects as undergraduate work. .

Sommario/riassunto

This three-volume set CCIS 1755-1757 constitutes the refereed proceedings of the 4th International Conference on Applied Technologies, ICAT 2022, held in Quito, Ecuador, in November 2022. The 112 full papers included in this book were carefully reviewed and selected from 415 submissions. They were organized in topical sections as follows: human computing and information science, IT financial and business management.
