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                   tuning approach using genetic algorithms for emergency incidents
                   classification in social media in Ecuador -- Software Hope: User
                   centered design for children with ASD -- Performance analysis of
                   emotion recognition prediction on mobile devices -- Android mobile
                   application for cattle body condition score using convolutional neural
                   networks -- Automatic Selection of Reference Lines for Spectrometer
                   Calibration with Recurrent Neural Networks -- Virtual Learning
                   Environment for Children with Down Syndrome through Leap Motion
                   and Artificial Intelligence -- Building a Knowledge Graph from
                   Historical Newspapers: A Study Case in Ecuador -- Smart Systems --
                   Colombian Sign Language Classification based on Hands Pose and

Machine Learning Techniques -- Spanish Stylometric Features to Determine Gender and Profession of Ecuadorian Twitter Users -- Identification of tropical dry forest transformation from soundscapes using supervised learning -- Atmospheric Dispersion Prediction for Toxic Gas Clouds by using Machine Learning Approaches -- Facial recognition system with liveness detection integrated into Odoo for attendance registration in a software laboratory -- Classification of Epileptic Seizures Based On CNN And Guided Back-Propagation For Interpretation Analysis -- An Approach to the Presumptive Detection of Road Incidents in Cuenca, Ecuador using the data from the Social Media Twitter and Spanish Natural Language Processing -- Financial credit risk measurement using a binary classification model -- FPGA-based Four-band Multispectral Camera Prototype for Precision Agriculture Applications -- Small-Scale Precision Agriculture: a Case Study Applied to a Seed Germination Chamber -- Diagnosis and degree of Evolution in a Keratoconus-type Corneal Ectasia Form Image Processing -- Finite element analysis of uncovered coplanar interdigital electrodes for capacitive sensor applications -- Smart Trends and Applications -- Medical diagnostic support software for depressive disorder in adolescents and adults based on electroencephalogram readings -- Effects of a Robotic Lower-Limb Orthosis on Gait based on the Analysis of sEMG Signals and Kinematic Data: Preliminary Results -- Design and Evaluation of a prototype of Dual Channel Electrical Stimulator: application in the assessment of current perception thresholds to multiple stimuli -- System for Postural Stability Assessment basedon an Inertial Sensors Network -- Perspectives on Climate Change until 2030 -- Virtual power plants as a management strategy to improve resilience in electrical distribution networks -- Design of an integrated system for the measurement and monitoring of electrical parameters under ISO 50001: a case study -- Aerodinamic Analysis based on Materials and Shapes of Different Types of Wind Turbine Blades for Wind Energy Production using Fast and Matlab Simulink -- Numerical Comparison Using CFD of R134a and R600a Condensation in Helical and Spiral Exchangers -- CIEMS: A Review Towards a Collaborative Industrial Emergency Management Information System -- PID and Model Predictive Control (MPC) Strategies Design for a Virtual Distributed Solar Collector Field -- Speed Controller by Neural Networks Trained by Invasive Weed for a DC Motor -- Abiotic Maize Stress Detection Using Hyperspectral Signatures and Band Selection -- Optimal Energy Dispatch Analysis using the inclusion of Virtual Power Plants based on Dynamic Power Flows -- Routing Protocols Implementation for WSN Using Optimal Dimensioning.

Sommario/riassunto	This book constitutes the refereed proceedings of the 3rd International Conference on Smart Technologies, Systems and Applications, SmartTech-IC 2022, held in Cuenca, Ecuador, in November 16–18, 2022. The 37 full papers included in this book were carefully reviewed and selected from 121 submissions. They were organized in topical sections as follows: Smart Technologies, Smart Systems, Smart Trends and Applications.