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Nota di contenuto	Information Systems and Technologies -- A Deep Learning-Based Computer Vision System for Automatic Screw Detection in Vehicle Wheel Boxes -- Impact of distances in an anomaly detection context for time series in software testing -- Analysis of Bitcoin Trends through the Integration of On-Chain Financial Indicators and Machine Learning -- An End-To-End Computer Vision System for Structured Information Extraction From Turkish ID Card Images -- Correlating Socioeconomic

Factors and Syphilis Incidence: A Case Study in Brazil -- RiceAML: An Auto Machine Learning Model to Identify Abiotic Stress-Associated Single Nucleotide Polymorphisms in Rice -- The Application of Machine Learning Algorithms to Predict Heart Disease -- Designing and Evaluating Heterogeneous Ensembles for Blood Glucose Level Forecasting -- Measuring Team Productivity in Agile Development: A Scrum-Based Process -- Generating local rules in Fuzzy Rule-Based Classification Systems -- Leveraging Large Language Models for Natural Language Processing based Tasks in the Legal Domain: A Short Survey -- Analysis of Weightlifting Success Predictability Using Machine Learning -- CausalBioCF: Causal Counterfactuals for Machine Learning Interpretability -- A Comparative Analysis of Interpretable Deep Learning Models for Nutrient Analysis in Vulnerable Populations -- A Generative AI based Architecture for Data Seeding in Software Testing -- Name Pattern Recognition: A Model Proposal Applied to the Anonymization of Unstructured Data -- Modular Architecture and Intelligent Routing for Chatbots -- A novel caching framework for efficient time-series analytics -- Named Entity Recognition for Performance and Synthesis Information of Perovskite Solar Cells Using SpaCy -- A Privacy-Preserving Framework for Cross-Institutional Medical Image Analysis Using Vision-Language Models -- An architecture for a reliability tool applied to distributed systems -- Predictive analysis with technical indicators and features selection for futures contracts trading -- Development of a Strategy for Duplication Search based on Multiple Hierarchically Organized Approaches -- Enhancing Stock Market Predictions: The Role of Feature Selection Techniques in Financial Modeling -- DRHRP: A Deep Reinforcement Learning Based Hybrid Routing Protocol for UAV Enabled Wireless Networks.

Sommario/riassunto

The three-volumes LNCS 15648, 15649, 15650 set constitutes the refereed proceedings of the 25th International Conference on Computational Science and Its Applications - ICCSA 2025, held in Istanbul, Turkey, during June 30–July 3, 2025. The 71 full papers, 6 short papers, and 1 PHD showcase paper were carefully reviewed and selected from 269 submissions. The papers have been organized in topical sections as follows: Part I: Computational Methods, Algorithms and Scientific Applications; High Performance Computing and Networks; Geometric Modeling, Graphics and Visualization; Advanced and Emerging Applications; Information Systems and Technologies; Urban and Regional Planning. Part II: Information Systems and Technologies; Part III: Information Systems and Technologies; Urban and Regional Planning; PHD Showcase Paper; Short papers. .
