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observation and monitoring of cultural heritage. The case of the Archaeological Park of Metaponto, Italy. -- Improving the Resource Management Process in Industrialization Projects. -- Sustainability Strategies and Practices in Society and Organizations. -- International Workshop on Electronic and Telecommunications (IWET 2024). -- Outdoor Biophotovoltaic LED Luminaire for Sustainable Energy Solutions. -- Real-Time Detection of the Colta's Lagoon Surface Contamination Using a Unmanned Aerial Vehicle (UAV)-Based Machine Learning. -- Study of Techniques and Technologies to Identify Vulnerabilities and Mitigate Risks in Computer Systems in University Institutions in Quito, Ecuador. -- Short-Term Prediction of Electricity Demand Using Deep Learning Models. -- Machine Learning-based Projections of Long-term Electricity Consumption: The Case Study of Ecuador. -- Prediction of Blood Oxygen Saturation by Physiological Variables Using Machine Learning. -- Inference Assessment on sub-6GHz Wi-Fi Systems. -- Dual-Band Logarithmic Antenna Array for 5G Technology and Satellite Communications. -- Analysis Method for the Study of Jamming and Anti-Jamming Based on IDS. -- Boosting Tourism using New Technologies (#RTNT2024). -- Technological Gaps Across Generations: How Ease of Use and Social Influence Affects QR Code Effectiveness in Restaurants. -- Cybersecurity in Information and Communication Technologies (CICT 2024). -- Optimizing the Error-Detecting Capability of the Quasigroup Redundancy Check Code when Quasigroups of Order 4 are Used for Coding. -- Towards Ensuring AI Data Access Control in RDBMS. -- Bridging Knowledge in a Fragmented World (glossaLAB 2024). -- Comparative Evaluation of Speech-to-Text Software Based on Sociodemographic and Environmental Factors. -- Workshop on IoT Networks and Wireless for sustainability (WINWIN-4S 2024). -- Evaluation of Parental Control Tools Functionalities: The Chilean Context. -- Joint Spectrum and Antenna Selection Diversity for V2V Links with Ground Reflections. -- Optimization of Coverage and Energy Efficiency in Underground Wireless Networks. -- A Lightweight and Efficient ECDSA Core for FPGA-based Edge-AI Platforms. -- IoT Application Development: A Comprehensive Narrowband Connectivity Device Solution. -- Real-Time Anomaly Detection Algorithm for DoS Attacks in Communication Networks with IEDs Using IEC 61850. -- On the Performance of an Air-Water Visible Light Communication System. -- Innovation in Educational Technology (JIUTE 2024). -- Competence of Teachers and Ethical Aspects of Implementing AI Technologies in Education. -- Digital Transformation and Workforce Skills in Technology-based Companies: Navigating Sinaloa's Industry 4.0. -- Simplified code in Wolfram Language to Project Objects from Four-dimensional to Three-dimensional Euclidian Space. -- Tactile Volcano Maps as Resources for an Inclusive Science Education.

Sommario/riassunto

This two-volume set, CCIS 2348 and CCIS 2349 ,constitutes the revised selected papers from the International Conference on Advanced Research in Technologies, Information, Innovation and Sustainability 2024, ARTIIS 2024 Workshops, held in Santiago de Chile, Chile, in October 2024. The 55 full papers and 10 short papers presented in these two volumes were carefully reviewed and selected from 170 submissions. These proceedings include papers from the following workshops: Part I: Applications of Computational Mathematics to Simulation and Data Analysis (ACMaSDA 2024); Business, Technology and Digital Transformation (BTDT 2024); Intelligent Systems for Health and Medical Care (ISHMC 2024); Workshop on Gamification Application and Technologies (GAT 2024); Smart Tourism and Information Systems (SMARTTIS 2024). Part II: International Symposium on Technological Innovations for Industry and Society (ISTIIS 2024); International

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