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Analyzing Patient Feedback through Sentiment Analysis and Topic Modeling. -- Nonlinear model predictive control for optimal dose administration in radiotherapy. -- Cybersecurity and Safety. -- Achieving Adaptive Safety via Trust Building in Autonomous Ecosystems. -- Behavioral and Human-Centric Access Control Model in XACML Reference Architecture: Design and Implementation of EHR Case Study. -- Quantized Digital Amplification Physical Layer Security Schemes. -- Evolving Cybersecurity Challenges in the Age of AI-Powered Chatbots: A Comprehensive Review. -- Energy Management and Sustainability. -- Rule-Based Control Algorithm to Explore Energy Flexibility from Residential Pool Filtration Pumps. -- Three-Level Zero-Voltage Transition Interleaved Buck Converter with DC Transformerbased Isolation for EV Fast Charging Stations. -- Promoting Decarbonization of Islands: A Case Study on the Replacement of Gas Water Heaters in Terceira Island, Azores, Portugal. -- Intelligent Computational Systems. -- Transition Invariants in the Analysis of Concurrent Systems Modelled by Petri Nets. -- Evaluating Postal Systems' Current State, Roadmap to Automation. -- Modular and Configurable Internet of Things Devices for Value Chain Digitalization. -- Mapping Forest Height with Multifrequency SAR, InSAR, and Multispectral Datasets. -- Electronic Systems. -- A Physically Unclonable Function for Biomedical Devices Authentication. -- Determining Thin Film Characteristics by Prism Coupling Technique . -- A Novel Analogue Computing System in HiL for Electric Traction.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th IFIP WG 5.5 /SOCOLNET Advanced Doctoral Conference on Computing, Electrical and Industrial Systems on Technological Innovation for Human-Centric Systems, DoCEIS 2024, held in Caparica, Portugal, during July 3–5, 2024. The 25 full papers presented were carefully reviewed and selected from 53 submissions. The papers cover the following topics: collaborative systems; human-robot collaboration; human-centric biomedical systems; cybersecurity and safety; energy management and sustainability; intelligent computational systems; electronic systems.