1. Record Nr. UNINA9910986127403321

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Titolo	The Impact of the Energy Dependency on Critical Infrastructure Protection : Proceedings of the 5th International Conference on Central European Critical Infrastructure Protection (ICCECIP 2023), Budapest, Hungary / / edited by Tünde Anna Kovács, Róbert Gábor Stadler, Norbert Daruka
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031785443 3031785444
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (900 pages)
Collana	Advanced Sciences and Technologies for Security Applications, , 2363-9466
Altri autori (Persone)	StadlerRóbert Gábor DarukaNorbert
Disciplina	621
Soggetti	Security systems Cooperating objects (Computer systems) Energy policy Security Science and Technology Cyber-Physical Systems Energy Policy, Economics and Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Data-Driven Strategies for Enhancing Supply Chain and Transportation Infrastructure Resilience. Are there still holes in the Swiss cheese? – Exploring the Inherent Limits of Safety and the Human Factor -- Using advanced technologies for the protection of critical infrastructures -- Challenges in using photovoltaic solar energy systems in Serbia as an individual producer - consumer -- The increase in the production of the defence industry in Central Europe and the risks arising from it -- Enhancing Safety and Efficiency: Human-Cobot Interaction in Critical Infra-structure -- 5G Infrastructure Standardization, Integration, Industry 4.0 Applications in EU, precisely Germany, and the Future of Industry 5.0 and 6G: A Comprehensive Overview -- As many organizations, as many compliance solutions - enforcement of special

protection in practice. Methodology for risk analysis in the design phase of high-rise building -- Temperature-dependencies and Dynamic Mechanical Behavior of Polymer and Metal Materials Under High impact Velocity: A review of our original experimental devices Development -- Water safety plan as a tool for water supply safety -- Africa and the Russian-Ukrainian war and its impact on Africa -- Optimized Multi-cloud Service Orchestration in Cloud Computing. Thermodynamic assessments of the Ce-Te and Ce-Te-Bi systems -- Application possibilities of PCB rework at large manufacturers -- Minimizing Energy Losses in the modern E-bikes by New Integrated Strategies for Adaptive Control -- Analysis of Blockchain Integration from Manufacturing -- IoT Security for Critical Infrastructure: Challenges and Best Practices -- Security Testing of Integrated Web Systems in the Process of Education of Software Engineers -- Impact of cybersecurity on old-type steel manufacturing industrial processes -- Critical security points in the IT systems of renewable energy communitys -- Options for implementing explosion protection in critical infrastructure -- The Impact Of Polluting Chemical Compounds Resulting From The Gases Exhausted By Road Vehicles In Urban Environment -- The possible impact of the proliferation of 3D printers on the protection of critical infrastructure -- Revolutionizing Industries through Virtual Reality: Current State, Applications, and Future Directions -- Embracing the Sharing Economy: A Global Imperative -- Investigation of the tightening torque of electrical connectors -- Tools for a Root Cause Analysis for Safety-Critical Components, a Review -- Enhancing Computer Forensics: Standardisation of Forensic Information Technology Expert Assignments -- Estimation of the thermal influence size zones of oil spill fire -- The possibility of energy enterprises technological units' protection from the fragmentation effect of ammunition -- Genetic Algorithm Optimization of PID and LQR Controllers for Enhanced Steer-by-Wire (SBW) System Performance -- How to motivate students of critical infrastructure protection, security technology engineering and law enforcement in ESP classes? -- Microstructural analysis of high-strength steel post gleeble modelling -- Explosive welding of metals for electronic applications. The relationship between situational crime prevention and road safety - Defending against environmental threats -- Mind the Gap: Introducing the “generation gap’s problem” in Cybersecurity -- Health and safety considerations before the modern times -- Introduction to the Institutional ArtWork Protection and Public Collection Storage -- Measurability aspects of the effectiveness of Cybersecurity Awareness programs -- Safety technological testing of the compound bow structure -- Cybersecurity Challenges in the Age of Drones: Navigating the Integration of Unmanned Aerial Vehicles with Cyberspace -- Model of the Thermal Effect of a Spill Fire on an Oil Product-Containing Tank -- Advanced object recognition using drones -- Police role in the security of critical infrastructure -- Enhancing Mobile Robot Path Planning with Hierarchical Conditional -- Variational Autoencoder Implementation -- EEG-based biometric identification using beta-brainwaves with a new methodology -- Examination of UV radiation during inert gas arc welding -- Supply Chain Management Using Automatic Guided Vehicle Systems in Smart Factory Logistics -- A Short Review of Polymer Friction Stir Welding -- Approach of by-design-risk-analysis on the cybersecurity of advanced engineered technologies -- Options for implementing explosion protection in critical infrastructure -- Protection Management Against Drones In Industrial Facilities -- Quantum Computers and IT Security: Unlocking the Future, Exploring the Questions -- Trust and Security: How Trust in Autonomous Systems

Shapes Decision-Making -- Technological challenges and self-driving cars: acceptance and stress -- Military 5G as a Critical Information Infrastructure -- Effect of heat treatment on the microstructure and mechanical properties of 3D printed Ti-6Al-4V alloy -- Brittle Structures and Hydrogen Damage of Steels.

Sommario/riassunto

This book presents cutting-edge research on the impact of energy dependence and strategies to mitigate it. As a crucial component of critical infrastructure, energy security is a top priority for nations worldwide. The protection of this infrastructure, along with the latest research tools and methodologies, is of significant interest to both policymakers and industry leaders. The book delves into two primary areas of research: cybersecurity and physical security, summarizing the latest findings in these critical fields. The papers in this volume offer valuable insights for both academic and industrial audiences, addressing the pressing challenges of energy security. Energy is integral to every aspect of our daily lives. Our comfort, as well as our safety, hinges on the uninterrupted supply of energy. Recent global events, particularly the Russian-Ukrainian war, have underscored the vulnerability of nations lacking sufficient energy resources. Europe's energy supply has been severely disrupted by sanctions, highlighting the need for energy resilience. However, this crisis has also accelerated the adoption of renewable energy sources, marking a pivotal shift towards sustainable energy solutions.