1. Record Nr.   UNINA9911018750603321

   Autore   Ilchenko Mykhailo

   Titolo   Advanced Smart Information and Communication Technology and
                      Systems : Advanced Approaches to Intelligent Data Processing and
                      Smart Networking / / edited by Mykhailo Ilchenko, Leonid Uryvsky,
                      Larysa Globa

   Pubbl/distr/stampa Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025

   ISBN   3-031-94799-1

   Edizione   [1st ed. 2025.]

   Descrizione fisica 1 online resource (527 pages)

   Collana   Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1470

   Altri autori (Persone) UryvskyLeonid
                           GlobaLarysa

   Disciplina   006.3

   Soggetti   Computational intelligence
                      Telecommunication
                      Computational Intelligence
                      Communications Engineering, Networks

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di contenuto Two-Factor Authentication Protocol Based on Zero-Knowledge Proof
                      Using Elliptic Curves -- Conceptual Approaches in Development of the
                      Selena-Information System for the Lunar Missions Maintenance --
                      Towards Seamless Multi-Cloud Integration: Algorithmic Approaches to
                      Data Distribution -- Interoperability Solutions for Enhanced Energy
                      Network Efficiency: Models, Management, and Integration -- The Audit
                      Method of the Information Communication Network of Large
                      Enterprises -- Performance Assessing of Dynamic Scaling of
                      Containerized Applications when Using Kubernetes Cluster Autoscaler
                      and Auto Scaling Group Together -- A Constraint-Based Model
                      Approach for Self-Healing Robotic Assembly -- Heuristic Algorithms
                      for UAV Trajectory Construction for Data Collection in Wireless Sensor
                      Network Nodes -- A Method for Adaptive Control of the Process of
                      Decoding Turbo-Like Codes -- Method of Hierarchical Queue
                      Management on Network Routers Based on the Goal Coordination
                      Principle -- Research of Queuing Systems Characteristics with Self-
                      Similarity Properties in Alternative Distributions of Application Flows --

Investigation of the Effectiveness of Switching Routing Protocols in V2V Communication Networks -- Simulation of Terahertz Wireless Communication System Based on Ultrawideband Signals -- Algorithm for Implementing the Method of Data Transmission Using Directional Action Sensors -- Handover Approaches for Supporting Drone Swarm Services in a 5G-NR Cellular Network.

Sommario/riassunto	This book highlights the most important research areas in Information and Communication Technologies and their impact on digital society and environment sustainable development namely the research in fields of Information and Communication Technologies, artificial intelligence in ICT, lunar missions maintenance, security of data and services, smart robotic systems implementation in the digital environment, and mathematical modeling for practical and research tasks in communication and data processing fields provided by various groups of researchers from Germany and Ukraine in cooperation with scientists from different countries. The presented studies contain a discussion on the use of multi-cloud integration approaches, in particular, based on methods of deep learning, practical implementation of the Internet of Things (IoT), the modern study of V2V Communication, and research in fields of mathematical modeling in applied problems. The book focuses on the basics of information and analytical activities in the digital global space, to providing broadband Internet access without decreasing the quality of experience (QoE) level, improving services provision, and system architecture with improving security. The study of modern communication and information technologies contains original works dealing with many aspects of their improvement and use for research that shows some effective technological solutions that can be used for the implementation of novel cloud infrastructure and radio electronics systems. These results can be used in the implementation of novel systems and to promote the exchange of information in e-societies. Given its scope, the book offers a valuable resource for scientists, lecturers, specialists working at enterprises, and graduate and undergraduate students who engage with problems in Information and Communication Technologies as well as aspects of society and environment sustainable development.