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Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 1448
Disciplina	006.3
Soggetti	Database management Artificial intelligence Computer vision Computer networks Cryptography Data encryption (Computer science) Database Management System Artificial Intelligence Computer Vision Computer Communication Networks Cryptology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynotes -- The meta COVID-19 pandemic period: a data science driven wise future planet? -- Adapting, Learning, and Control the Supply of a Vital Commodity such as COVID-19 Vaccine -- Artificial Intelligence and Deep Learning Technologies for Creative Tasks. Knowledge Discovery in Patent and Open Sources -- Analyzing and Forecasting Emerging Technology Trends by Mining Web News -- Development of a Method for Intellectual Support of Inventive Activity Based on Deep Machine Learning Methods -- The measure of the technological complementarity between enterprises based on patent

databases -- Relevant Image Search Method when Processing a Patent Array -- Artificial Intelligence and Deep Learning Technologies for Creative Tasks. Open Science Semantic Technologies -- Chomsky Was (Almost) Right: Ontology-based Parsing of Texts of a Narrow Domain -- Creative Knowledge Representation for Knowledge Management: The Dialectical Approach -- Improvement of intent classification using diacritic restoration for text message in chatbot -- Numerical and Symbolic Integration in the MAPLE Package: Software for Antiplane Problems of the Non-Linear Elasticity Theory -- Artificial Intelligence and Deep Learning Technologies for Creative Tasks. IoT and Computer Vision in Knowledge-Based Control -- Optimization of Internet of Things System -- Optimization of the intelligent controller rule base based on fuzzy clustering for controlling an object operating in changing conditions -- New communicative strategies for the affective robot: F-2 going tactile and complimenting -- The System of Intelligent Identification of Harmful Objects in the Field of Agriculture -- Cyber-Physical Systems and Big Data-Driven World. Pro-Active Modeling in Intelligent Decision Making Support -- Formalization of the choice for optimal technological solutions -- Evaluation of the State Effectiveness in the Model of Control of Generalized Computational Experiment -- Comparative Study of the Innovative Activity Dynamics in the Russian Federation Using the Singular Spectrum Analysis -- Analysis of the competitiveness risks of food production enterprises using mathematical modelling methods -- System approach in organization of international students' mobility -- Cyber-Physical Systems and Big Data-Driven World. Design Creativity in CASE/CAI/CAD/PDM -- Development of a discrete slicer for additive manufacturing -- Automatic calculation of material laying trajectories when preparing 3D models for five-axis FFF printing with continuous fiber reinforcement -- Constructing equidistant curve for planar composite curve in CAD systems -- Data processing pipeline: from 3D surface scanning to coke drum residual life assessment -- Using Virtual Reality Systems for Crime Scene Reconstruction -- Cyber-Physical Systems and Big Data-Driven World. Intelligent technologies in Urban Design and Computing -- Collection and consolidation of big data for proactive monitoring of critical events at infrastructure facilities in an urban environment -- Digital Technologies for Surveying Buildings and Structures -- Database of architectural patterns, heritage objects and plots for conceptual design of urban objects -- Computer aided evaluation of individual traffic road safety along a given route within the framework of the "driver-car-road-environment" system -- Development of a Methodology for Complex Monitoring of the Development of Urban and Suburban Areas based on the Intellectual Analysis of Earth Remote Sensing Data and Geospatial Technologies -- Fractal approach to automation of conceptual design of control systems' elements by the intellectual building -- Intelligent Technologies in Social Engineering. Data Science in Social Networks Analysis and Cyber Security -- A secure and stable routing protocol for VANET under malicious attacks -- Proactive modeling in the assessment of the structural functionality of the subject of critical information infrastructure -- Data Processing Based on the Structure Oriented Evaluation Online Tool from SERVQUAL Model -- Expert & Technical Support for Investigation of Thefts Involving Malware Usage -- Biometrics databases as forensic registers -- Intelligent Technologies in Social Engineering. Educational Creativity and Game-Based Learning -- A set of tools for updating and personalizing educational programs and content in an intellectual learning environment -- Model for creating an adaptive individual learning path for training Digital Transformation Professionals and Big

Data Engineers using Virtual Computer Lab -- E-Learning Evaluation based on SURE Model: Case of Mongolian University of Pharmaceutical Sciences -- E-Learning Evaluation based on SURE Model: Case of Mongolian University of Science and Technology -- Lee's wave algorithm developed in Tower Defense (TD) game -- User Engagement Assessment for Adaptive Learning Systems -- Cybersecurity Specialists' E-Learning Problems -- Intelligent Technologies in Social Engineering. Intelligent Assistive Technologies: Software Design and Application -- User Experience Analysis based on a Virtual Mark-up Approach -- Mobile Interface Personalization during the Application Usage Based on Patterns Ontology Model for People with Special Needs -- Development of Specialized Methods and Algorithms for Preventive Monitoring of Reliability -- Methodology for Preclinical Laboratory Research Using Machine Learning.

Sommario/riassunto

This book constitutes the proceedings of the 4th Conference on Creativity in Intellectual Technologies and Data Science, CIT&DS 2021, held in Volgograd, Russia, in September 2021. The 39 full papers, 7 short papers, and 2 keynote papers presented were carefully reviewed and selected from 182 submissions. The papers are organized in the following topical sections: Artificial intelligence and deep learning technologies; knowledge discovery in patent and open sources; open science semantic technologies; IoT and computer vision in knowledge-based control; Cyber-physical systems and big data-driven control: pro-active modeling in intelligent decision making support; design creativity in CASE/CAI/CAD/PDM; intelligent technologies in urban design and computing; Intelligent technologies in social engineering: data science in social networks analysis and cyber security; educational creativity and game-based learning; intelligent assistive technologies: software design and application.
