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Altri autori (Persone)	MazurkiewiczJacek SugierJarosaw WalkowiakTomasz KacprzykJanusz
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Nota di contenuto	Line Segmentation of Handwritten Documents Using Direct Tensor Voting -- Practical Approach to Introducing Parallelism in Sequential Programs -- The digital twin to train a neural network detecting headlamps failure of motor vehicles -- Dynamic change of tasks in multiprocessor scheduling -- Regression models evaluation of short-term traffic flow prediction -- Performance analysis of a real-time data warehouse system implementation based on open-source technologies -- Evaluating the Different Factors Affecting the Educational Attainment of Students at the Faculty of Information Technology at Jordan

Universities -- Hammering test on a concrete wall using Neural Network -- Artificial intelligence methods in email marketing - a survey -- Detection of oversized objects in a video stream, exploiting an image classification approach using deep neural networks -- Reliability Model of Bioregenerative Reactor of Life Support System for Deep Space Habitation -- Safety assessment of maintained control systems with cascade two-version 2oo3/1oo2 structures considering version faults -- CPU signal rank-based disaggregation in Cloud computing environments -- Efficient Clustering-based Neighbourhood in Recommender Systems -- New approach to constructive induction - Towards Deep Discrete Learning -- Softcomputing Approach to Music Generation -- Identification of the Language UsingStatistical and Neural Approaches -- Smart data logger with continuous ECG signalmonitoring -- Movement Tracking in Augmented and Mixed Realities Impacting the User Activity in Medicine and Healthcare -- General provisioning strategy for local specialized cloud computing environments -- Tabular structures detection on scanned VAT invoices -- Automation of deanonymization queries for the Bitcoin investigations -- Structural models for fault detection of Moore finite state machines -- Application of generative models to augment IMU signals in gait biometric -- Ant colony optimization algorithm for finding the maximum number of d-size cliques in a graph with not always m-vertices in its d parts -- Partitioning of a m-part weighted graph with n vertices in each its part into n cliques with m vertices and the total minimum sum of their edges weights using ant algorithms -- A Study of Architecture Optimization Techniques for Convolutional Neural Networks -- Scheduling Resource to Deploy Monitors in Automated Driving Systems -- Power Analysis of BLAKE3 Pipelined Implementations in FPGA Devices -- Deep Learning ECG Signal Analysis: Description and Preliminary Results -- Deployment of Deep Models in NLP Infrastructure -- Analysis of handwritten texts to detect selected psychological characteristics of a person -- Architecting Cloud-Based Business Software - A Practitioner's Perspective.

Sommario/riassunto

The book includes papers about various problems of dependable operation of computer systems and networks, which were presented during the 18th DepCoS-RELCOMEX conference. Their collection can be an interesting source material for scientists, researchers, practitioners, and students who are dealing with design, analysis, and engineering of computer systems and networks and must ensure their dependable operation. The increasing role of artificial intelligence algorithms and tools in modern information technology and computer engineering, especially rapid expansion of tools based on deep learning methods, calls for extending our view on system dependability. Selection of papers in these proceedings not only illustrates a wide-ranging variety of multidisciplinary topics which should be considered in this context but also proves that virtually all areas of contemporary computer systems and networks must takeinto account an aspect of dependability.