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Soggetti	Database management Computer networks Computer engineering Image processing - Digital techniques Computer vision Software engineering Database Management System Computer Communication Networks Computer Engineering and Networks Computer Imaging, Vision, Pattern Recognition and Graphics Software Engineering
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Nota di contenuto	-- Mathematical Modeling of Determining the Current of a CdTe-SiO <sub>2</sub> Semiconductor in an Alternating Electric Field. -- A Mathematical Model for Calculating Incoming Energy Based on Climate Change. -- An Improved Two-Stage Processing Method for Tomographic Images in Industrial Inspection Using Self Supervised Neural Networks: Denoising and Super Resolution. -- Filtering X-ray Images Based on Gabor-flexible Representation of Quantum Images. -- Time Series Research using Cross-Wavelet-Analysis. -- Application of Adaptive Neuro-Fuzzy System in Semiconductor Defects. -- A Method of Screw Movement of the Piston in the Cylinder of Rotation with Modeling of Piston

Movement in the Program MathCAD. -- Integration Model for Business Intelligence Systems in Cloud Architecture Using Multi-Agent Systems. -- Comparative Analysis of Methods for Solving Differential Equations Using MATLAB. -- Optimization of Transfer Learning Models for Forecasting Complex Systems. -- Fuzzy Situational-Precedent Models for Control of Complex Technical Objects. -- Scalable Customer Segmentation with Mini-Batch K-Means on Apache Spark: A Comparative Study of Clustering Algorithms. -- Classification of X-ray Images Using Quantum-Hybrid Neural Network. -- Detection and Verification of the Object's Compliance with the Requirements of Marketplace Using Neural Networks. -- Modeling of Cyber-physical Systems with the Possibility of Increasing the Efficiency of their Management. -- The Impact of Synthetic Noise on the Performance of YOLO for HEp-2 Cell Classification. -- Contribution Impact, Challenges, and Future Directions of Computerized Virtual Reality to Shape the Future.

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Sommario/riassunto

This book constitutes the revised selected papers of the 4th International Scientific and Practical Conference on Information Technologies and Intelligent Decision-Making Systems, ITIDMS 2024, held in Moscow, Russia, during December 11–13, 2024. The 17 full papers included in this book were carefully reviewed and selected from 49 submissions. They focus on topics such as digital, intellectual and information transformation, the development of computer models and the improvement of automated and computing processes.

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