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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Modeling the Optical Gain of Erbium-Doped Fiber Amplifiers in Strong Cross-Gain Modulation Regime Employing Artificial Neural Networks -- The fuzzy logic model for machining data selection -- Hybrid Weighted Ensemble Model for Early Diagnosis of Parkinson Disorder Using Voice Features -- Advancements In CT Image Reconstruction: An Exploration of Conventional and Deep Learning-Driven Approaches -- Machine Learning-Assisted Food Quality Index Determination For Healthcare -- A Survey on Detection of Man-in-the-Middle Attack in IoMT Using Machine Learning Techniques -- An Application of Deep Learning Using Leaky Rectified Linear Unit and Hyperbolic Tangent in Non Destructive Testing -- Binary Probing: A Novel Approach for Efficient Hash Table Operations -- AI in Mechanical Design: Generate Specific Components -- Solution Of ECG Inverse Problem Using Artificial Neural Network --

The Impact of Artificial Intelligence Technology in learning Zones -- From Stateless to Stateful: A Comparative Analysis of Stateful Serverless Computing Frameworks -- An Online Learning and Problem Solving (OLPS) EEG Database for Mental Workload Assessment and Its Initial Benchmark Classification Performance -- Convolutional Neural Networks-Based Evaluation of Disease Severity in Grape Plant Using Colored and Grayscale Leaf Images -- A Parallel Non-Dominated Sorting Genetic Algorithm-II for Vehicle Routing Problem in Supply Chain -- Massively Parallel GPU Implementation of The TLBO Algorithm for Solving High-Dimensional Systems of Nonlinear Equations -- Support Vector Machine Based Classification for Telemedicine Based on ECG Data -- Concept of Application of Heuristic Models for SMART Management in the Medium-Sized Industrial Enterprise -- Sentiment Analysis Using Ensemble of Deep Learning Models -- A Comparative Study and Review on Load Balancing Algorithms in Hybrid Cloud-Fog Computing -- Optimized Advancements in Next-Generation Recommendation Engines for Personalized Experiences on OTT Platforms -- Shapley Additive Explanations for Machine Emotion Intelligence in CNNs -- Simulation And Performance Evaluation of WSN Based Wild Animal Protection Architecture Using NS2 -- Numerical simulations using SCAPS-ID software on variation of ETL, HTL and absorbing layers of contemporary organic solar cells with neoteric DOE Approach as a soft computing tool.

Sommario/riassunto

The book presents high-quality research papers presented at International Conference on Computational Intelligence (ICCI 2023) held at Sardar Vallabhbhai National Institute of Technology, Surat, India, during 4–5 November 2023. The topics covered are artificial intelligence, neural network, deep learning techniques, fuzzy theory and systems, rough sets, self-organizing maps, machine learning, chaotic systems, multi-agent systems, computational optimization ensemble classifiers, reinforcement learning, decision trees, support vector machines, hybrid learning, statistical learning, metaheuristics algorithms, machine vision, Internet of Things, image processing, image segmentation, data clustering, sentiment analysis, big data, computer networks, signal processing, supply chain management, web and text mining, distributed systems, bioinformatics, embedded systems, expert system, forecasting, pattern recognition, planning and scheduling, time series analysis, human-computer interaction, web mining, natural language processing, multimedia systems, and quantum computing.
