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Nota di contenuto	-- On cellular automata and unconventional computation. -- Machine Learning Based Control for Motion Stabilization along Spatial Trajectory Through Symbolic Regression. -- Transformer-XL for Long Sequence Tasks in Robotic Learning from Demonstrations. -- The Importance of Considering the Human Condition in Systems Designed on the Basis of the Concept of Co-evolutionary Hybrid Intelligence. -- Deterministic-stochastic approach for studying the characteristics of traffic flows at road intersection. -- Design of an intelligent system for monitoring environmental metrics. -- Arti cial neural networks in non-destructive testing and evaluation: a novel approach to radiographic inspection. -- About Trust in Intelligent Data Analysis. -- Optimization approach to the problem of SD-WAN channel selection. -- One Approach to

Mathematical E-Learning Systems Content Generation. -- Wavelet neural networks for linear stochastic system mean square error synthesis. -- Binary code compression based on decision trees. -- Intelligent System for Software Developer Competence Assessment Based on Fuzzy Logic and Data Mining. -- Bit-Stream Perceptron. -- Comparison of Task Allocation Methods for Human-Robot Collaboration Systems in Aircraft Manufacturing Industry. -- Predicting Health Status Based on Human Gait Parameters Using a Smartphone. -- Comparison of Optimal Linear and Non-Linear Filtering Estimates For A Class of Markov Jump Processes. -- Intelligent detection of cyber attacks on electrical power systems based on simulation and graph-based modeling. -- Data quality estimation using Machine Learning approach and statistical metric. -- Detecting Anomalies in Containerized Systems: Applying Frequency Analysis to Network Packet Payloads Using AE-LSTM Hybrid Neural Network. -- Optimization of Adaptive Neural-Fuzzy Network Controller Using Particle Swam Optimization Algorithm to Depth Control for AUV. -- Research of the impact of trajectory algorithms interpolation on energy efficiency and operation execution time for collaborative robots. -- Automated neural-network-based decision support system for forecasting mechanical properties of aluminum alloys. -- UAV swarm control with operator-leader-followers approach.

Sommario/riassunto

The three-volume set CCIS 2603, 2604 and 2605 constitutes the refereed proceedings of the 16th International Conference on Intelligent Systems, INTELS 2024, held in Moscow, Russia, during December 2–4, 2024. The 72 papers included in these proceedings were carefully reviewed and selected from 140 submissions. They focus on areas of intelligent systems and artificial intelligence and their application to sustainable development and new challenges to the society.