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Nota di contenuto	Prediction intervals for the Artificial Neural Network (ANN) and Adaptive Neuro-Fuzzy Inference System (ANFIS) via the LUBE method -- Analysis and Modeling of Information Security Information Security Systems in Industry 4.0 -- Using Non-linear Integral Models in Automatic Control and Measurement Systems for Sensors' Input Signals' Recovery -- Neural Network Method and Algorithm for Document Detection Based on Signaling Analysis -- Using fuzzy probabilistic implication in Z-set based inference -- Accounting experience between fuzzy integral and Z-numbers -- The Impact of In-Store Environment on Purchase Intention in Supermarkets -- A recurrent method for structural-parametric identification of fuzzy neural networks -- Voltage Control System for Electrical Networks Based on Fuzzy Sets -- Algorithms for the Synthesis of Optimal Linear-Quadratic Stationary Controllers --

Toward ordering of n-tuples of Z-numbers -- Determining the activity of fullerene nanoparticles using QSAR models -- Selection of the Optimal Class of Features for Recognition of the Azerbaijani Handprinted Characters -- About one feature selection algorithm method in pattern recognition -- The Neural Network Based Decision Support System Using Aggregated Opinions of Public Observers.

Sommario/riassunto

This book presents the proceedings of the 11th Scientific Conference "Intelligent systems for industrial automation," WCIS-2020, held in Tashkent, Uzbekistan, on November 26–28, 2020. It includes contributions from diverse areas of intelligent industrial systems design as hybrid control systems, intelligent information systems, decision making under imperfect information and others. The topics of the papers include intelligent control systems, pattern recognition, Industry 4.0, information security, neural computing, fuzzy and evolutionary computation, decision making and support systems, modeling of chemical technological processes and others.