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Soggetti	Artificial intelligence Machine theory Computer science Information storage and retrieval systems Database management Computer vision Artificial Intelligence Formal Languages and Automata Theory Theory of Computation Information Storage and Retrieval Database Management Computer Vision
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Nota di contenuto	What Can Fuzzy Cluster Analysis Contribute to Clustering of High-Dimensional Data -- Interpretability in Machine Learning -- Principles and Practice -- Interpretability of Fuzzy Systems -- Feature Selection Based on Fuzzy Mutual Information -- A New Heuristic Function for DC -- Learning Membership Functions for Fuzzy Sets through Modified Support Vector Clustering -- Using Fuzzy Multilayer Perceptrons for the Classification of Time Series -- Imputation of Possibilistic Data for Structural Learning of Directed Acyclic Graphs -- Adding Real Coefficients to Lukasiewicz Logic: An Application to Neural Networks --

Possibilistic Graphical Models: From Reasoning to Decision Making -- Ranking Triangular Fuzzy Numbers Using Fuzzy Set Inclusion Index -- Towards Categorical Fuzzy Logic Programming -- Probability-Possibility Transformation: Application to Bayesian and Possibilistic Networks -- The Equation $I(S(x, y), z) = T(I(x, z), I(y, z))$ for t-representable t-conorms and t-norms Generated from Continuous, Archimedean Operations -- Evaluation and Ranking of Intuitionistic Fuzzy Quantities -- Approximation of Fuzzy Measures Using Second Order Measures: Estimation of Andness Bounds -- Neighbor-Based Similarities -- Model-Based Image Interpretation under Uncertainty and Fuzziness -- A Fuzzy System for Background Modeling in Video Sequences -- Shape Annotation by Incremental Semi-supervised Fuzzy Clustering -- Proficiency of Fuzzy Logic Controller for Stabilization of Rotary Inverted Pendulum based on LQR Mapping -- A Fuzzy Approach to Cloud Admission Control for Safe Overbooking -- Rule Learning in a Fuzzy Decision Support System for the Environmental Risk Assessment of GMOs -- A Fuzzy Cellular Automata for SIR Compartmental Models.

Sommario/riassunto

This book constitutes the proceedings of the 10th International Workshop on Fuzzy Logic and Applications, WILF 2013, held in Genoa, Italy, in November 2013. After a rigorous peer-review selection process, ultimately 19 regular papers were selected for inclusion in this volume from 29 submissions. In addition the book contains 3 keynote talks and 2 tutorials. The papers are organized in topical sections named: fuzzy machine learning and interpretability; theory and applications.
