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Soggetti	Computational intelligence Artificial intelligence Pattern recognition systems Computational Intelligence Artificial Intelligence Automated Pattern Recognition
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Recognition of Fuzzy or Incompletely Described Objects -- Evaluating and Comparing Classifiers: Review, Some Recommendations and Limitations -- Multi-aspect Assessment and Classification of Porous Materials Designed for Tissue Engineering -- Enhancing English-Japanese Translation Using Syntactic Pattern Recognition Methods -- Novel Results on Random Walk-Jump Chains that Possess Tree-based Transitions -- Travel Time Prediction for Trams in Warsaw -- Diagnostic Rule Extraction Using the Dempster-Shafer Theory Extended for Fuzzy Focal Elements -- Gait Recognition Using Motion Trajectory Analysis -- Methodology of the Construction of a GDPLL(k) Grammar-based Syntactic Pattern Recognition System -- Determining of an Estimate of the Equivalence Relation on the Basis of Pairwise Comparisons -- Classification of Body Regions based on MRI Log Files -- Semi-automatic Segmentation of Scattered and Distributed Objects -- Playback Attack Detection: The Search for the Ultimate Set of Antispoof Features -- AVision-Based Method for Automatic Crack

Sommario/riassunto

This book offers a comprehensive study of computer recognition systems – one of the most promising directions in artificial intelligence. It presents a collection of 52 carefully selected articles contributed by experts in the field of pattern recognition, discussing both methodological aspects and applications of current research. It includes the following sections: · Features, learning, and classifiers · Biometrics · Data stream classification and big data analytics · Image processing and computer vision · Medical applications · Applications It is a valuable reference tool for scientists dealing with the problems of designing computer pattern recognition systems, including researchers and students of computer science, artificial intelligence and robotics.