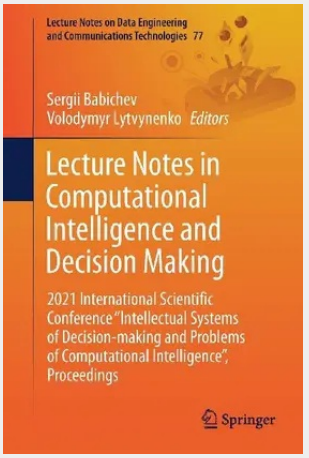
Babichev / Lytvynenko

Lecture Notes in Computational Intelligence and Decision Making

2021 International Scientific Conference "Intellectual Systems of Decision-making and Problems of Computational Intelligence", Proceedings



This book is devoted to current problems of artificial and computational intelligence including decision-making systems. Collecting, analysis, and processing information are the current directions of modern computer science. Development of new modern information and computer technologies for data analysis and processing in various fields of data mining and machine learning creates the conditions for increasing effectiveness of the information processing by both the decrease of time and the increase of accuracy of the data processing.
The book contains of 54 science papers which include the results of research concerning the current directions in the fields of data mining, machine learning, and decision making. The papers are divided in terms of their topic into three sections. The first section "Analysis and Modeling of Complex Systems and Processes" contains of 26 papers, and the second section "Theoretical and Applied Aspects of Decision-Making Systems" contains of 13 papers. There are 15 papers in the third section "Computational Intelligence and Inductive Modeling".
The book is focused to scientists and developers in the fields of data mining, machine learning and decision-making systems.

Section I: Analysis and Modeling of Complex Systems and Processes.- Financial Risk Estimation in Conditions of Stochastic Uncertainties.- Numerical Modeling of Disk Dissolution in Melt During Gas Blowing.- Streaming Algorithm to the Decomposition of a Polyatomic Molecules Mass Spectra on the Polychlorinated Biphenyls Molecule Example.- Essential R Peak Detector Based on the Polynomial Fitting.- Models of Factors of the Design Process of Reference and Encyclopedic Book Editions.- Applying Visibility Graphs to Classify Time Series.- Section II: Theoretical and Applied Aspects of Decision-Making Systems.- Assessment of the Inuencing Factors Signifcance in Non-destructive Testing Systems of Metals Mechanical Characteristics based on the Bayesian Network.- Markovian Learning Methods in Decision-Making Systems.- An Intelligent System for Providing Recommendations onthe Web Development Learning.- Real-time Sensing, Reasoning and Adaptation for Computer Vision Systems.- Section III: Computational Intelligence and Inductive Modeling.- Spectrophotometric Method for Coagulant Determining in a Stream based on an Artifcial Neural Network.- Comparative Analysis of Normalizing Techniques based on the Use of Classifcation Quality Criteria.- Assesment Model for Domain Specifc Programming Language Design.- General Scheme of Modeling of Longitudinal Oscillations in Horizontal Rods.

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