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Soggetti	Computational intelligence Artificial intelligence Mathematics - Data processing Computational Intelligence Artificial Intelligence Computational Mathematics and Numerical Analysis
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A New Exploitation Scheme in the Context of Bipolar Classifiers -- Dynamic Maximal Covering Location Problem with Facility Types -- Implicative Linguistic Summaries -- Comparison of Discrete Memetic Evolutionary Metaheuristics for TSP -- Syntactic Analysis of Sentences Using Deep Neural Networks -- Estimating Remaining Time of Business Processes with Structural Attributes of the Traces -- Convolutional Neural Networks in the Ovarian Cancer Detection -- Analyzing the Performance of TSP Solver Methods -- A Fuzzy Model to Aggregate Performance Indicators in Sports -- Formal Analysis of Solar Power and Weather Data -- A New Community Detection Problem Based on Bipolar Fuzzy Measures -- Novel Methods of FCM Model Reduction -- Some Implications of Interval Approach to Dimension for Network Complexity -- Social Indexes Segregation based on MEOWA and MOOWA Aggregation Operators -- Combining Conceptual Graphs and Sentiment Analysis for Fake News Detection -- A Weakened Notion of

Congruence to Reduce Concept Lattices -- Interactive Search by Using Minimal Generators -- Knowledge Implications in Multi-adjoint Concept Lattices -- Fuzzy Decision Support Methodology for Sustainable Packaging System Design -- Some Relationships Between the Notions of  $f$ -Inclusion and  $f$ -Contradiction -- Decomposition Integrals for Interval-valued Functions -- Relational Powerset Theories -- On Some Categories Underlying Knowledge Graphs -- On Two Categories of Many-level Fuzzy Morphological Spaces -- Congruences on Lattices and Lattice-valued Functions -- Some Roughness Features of Fuzzy Sets.

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#### Sommario/riassunto

This book collects the final versions of the highest quality papers presented at the conference 11th European Symposium on Computational Intelligence and Mathematics held on October 2–5, 2019, in Toledo (Spain). The conjugation of computational sciences with different mathematical tools is essential in order to solve different challenges that arise in a wide-ranging knowledge areas. Nowadays, many promising research lines are being developed in this direction from the theoretical and applicational perspectives. In this publication, computational intelligence and mathematics are combined in interesting research works that aim to give answers to complex real problems. Moreover, the technical program of this conference included four excellent keynote speeches, given by Prof. José Luis Verdegay (Guidelines to solve Decision Making Problems), Prof. Joao Paulo Carvalho (Recommender Systems: Using Fuzzy Fingerprints for "Proper" Recommendations), Dr. Andreja Tepavcevic (Special lattice valued structures and approximate solutions of linear equations), and Prof. Juan Moreno-Garcia (Generating linguistic descriptions using Linguistic Petri Nets).

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