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| Disciplina | 004.6 |
| Soggetti | Physics Social sciences—Data processing Social sciences—Computer programs Computational intelligence Computational complexity Applications of Graph Theory and Complex Networks Computational Social Sciences Computational Intelligence Complexity Xarxes d'ordinadors Xarxes socials en línia Congressos Llibres electrònics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Part I Theory -- Condensed Graphs: a generic framework for accelerating subgraph census computation -- Group cohesion assessment in networks; Node Classification with Bounded Error Rates -- Assessment of the effectiveness of random and real-networks based on the asymptotic entropy -- Unsupervised Strategies to Network Topology Reconfiguration Optimization with Limited Link Addition -- Embedding of Signed Networks Focusing on Both Structure and Relation |

-- Power of Nodes Based on Their Interdependence -- Asymmetric Node Similarity Embedding for Directed Graphs -- Consistent Recovery of Communities from Sparse Multi-relational Networks: A Scalable Algorithm with Optimal Recovery Conditions -- Part II Processes -- Zealotry and Influence Maximization in the Voter Model: When to Target Partial Zealots? -- Collective Decision-Making on Triadic Graphs.-Reconstruction of Demand Shocks in Input-Output Networks -- Part III Biomedical Applications -- Boolean Threshold Networks as Models of Genotype-Phenotype Maps -- Subsystem Cooperation in Complex Networks - Case Brain Network -- Network-Based Approach for Modeling and Analyzing Coronary Angiography.-Connecting Neural Reconstruction Integrity (NRI) to Graph Metrics and Biological Priors -- Part IV Social Media Analysis -- Twitter Watch: Leveraging Social Media to Monitor and Predict Collective-Efficacy of Neighborhoods -- A Longitudinal Analysis of Vocabulary Changes in Social Media -- Communities of Human Migration in Social Media: An Experiment in Social -- Demographic analysis of music preferences in streaming service networks -- Part V Mobility Networks -- Comparative Analysis of Store Opening Strategy Based on Movement Behavior Model over Urban Street Networks -- Optimisation of Signal Timings in a Road Network -- Gender Patterns of Human Mobility in Colombia: Reexamining Ravenstein's Laws of Migration -- Dynamic Network of United States Air Transportation at Multiple Levels -- Part VI Economical Networks -- Mining the Automotive Industry: A Network Analysis of Corporate Positioning and Technological Trends -- Finding the Worldwide Industrial Transfer Pattern under the Perspective of Econophysics -- Similarity Analysis in Multilayer Temporal Food Trade Network -- Transactional Compatible Representations for High Value Client Identification: A Financial Case Study -- Part VII Social Problems -- A Complex Network Approach to Structural Inequality of Educational Deprivation in a Latin American country -- Network-Based Delineation of Health Service Areas: A Comparative Analysis of Community Detection Algorithms -- Diversity Analysis Exposes Unexpected key Roles in Multiplex Crime Networks -- Part VIII Science of Science -- Policy-Relevant Science: The Depth and Breadth of Characterizing the Dynamics of Academic Affiliations: A Network Science Approach.

Sommario/riassunto

This book aims to bring together researchers and practitioners from diverse disciplines—from sociology, biology, physics, and computer science—who share a passion to better understand the interdependencies within and across systems. This volume contains contributions presented at the 11th International Conference on Complex Networks (CompleNet) in Exeter, United Kingdom, 31 March - 3 April 2020. CompleNet is a venue for discussing ideas and findings about all types of networks, from biological, to technological, to informational and social. It is this interdisciplinary nature of complex networks that CompleNet aims to explore and celebrate.
