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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I: Information Spreading in Social Media -- Cognitive Cascades within Media Ecosystems: Simulating Fragmentation, Selective Exposure and Media Tactics to Investigate Polarization -- Properties of Reddit News Topical Interactions -- Will You Take the Knee? Italian Twitter Echo Chambers' Genesis during EURO 2020 -- A simple model of knowledge scaffolding -- Using knowledge graphs to detect partisanship in online political discourse -- The wisdom_of_crowds: an efficient, philosophically-validated, social epistemological network profiling toolkit -- Opening up echo chambers via optimal content recommendation -- Change my Mind: Data Driven Estimate of Open-Mindedness from Political Discussions -- The effects of message sorting in the diffusion of information in online social media -- Gradual Network Sparsification and Georeferencing for Location-Aware Event Detection in Microblogging Services -- Manipulation during the French presidential campaign : Coordinated inauthentic behaviors and astroturfing analysis on text and images -- Part II: Modeling Human Behavior -- Lexical networks constructed to correspond students' short written responses: A quantum semantic approach -- Attributed Stream-Hypernetwork analysis: Homophilic Behaviors in Pairwise and Group Political Discussions on Reddit -- Individual Fairness for Social

Media Influencers -- Multidimensional online American politics: Mining emergent social cleavages in social graphs -- Classical and quantum random walks to identify leaders in criminal networks -- Random walk for generalization in goal-directed human navigation on Wikipedia -- Sometimes Less is More: When Aggregating Networks Masks Effects -- An Adaptive Network Model Simulating the Effects of Different Culture Types and Leader Qualities on Mistake Handling and Organisational Learning -- Part III: Biological Networks -- Modeling of Hardy-Weinberg Equilibrium using dynamic random networks in an ABM framework -- IntegrOmics: A computational Framework to analyze RNA-Seq and Methylation data through heterogeneous multi-layer networks -- A Network-based Approach for Inferring Thresholds in Co-expression Networks -- Building Differential Co-expression Networks with Variable Selection and Regularization -- Inferring probabilistic Boolean networks from steady-state gene data samples -- Quantifying High-Order Interactions in Complex Physiological Networks: a frequency-specific approach -- A Novel Reverse Engineering Approach for Gene Regulatory Networks -- Using the Duplication-Divergence Network Model to Predict Protein-Protein Interactions -- Part IV: Machine Learning and Networks -- SignedS2V: structural embedding method for signed networks -- HM-LDM: A Hybrid-Membership Latent Distance Model -- The Structure of Interdisciplinary Science: Uncovering and Explaining Roles in Citation Graphs -- Inferring Parsimonious Coupling Statistics in Nonlinear Dynamics with Variational Gaussian Processes -- Detection of Sparsity in Multidimensional Data Using Network Degree Distribution and Improved Supervised Learning with Correction of Data Weighting -- Network Structure vs Chemical Information in Drug-Drug Interaction Prediction -- Geometric Deep Learning graph pruning to speed-up the run-time of Maximum Clique Enumeration algorithms -- Graph Mining and Machine Learning for Shader Codes Analysis to Accelerate GPU Tuning -- Part V: Networks in Finance and Economics -- Pattern Analysis of Money Flows in the Bitcoin Blockchain -- On the Empirical Association between Trade Network Complexity and Global Gross Domestic Product -- Measuring the Stability of Technical Cooperation Network Based on the Nested Structure Theory -- Dynamic transition graph for estimating the predictability of financial and economical processes -- A network analysis of world trade structural changes (1996-2019) -- Green Sector Space: The evolution and capabilities spillover of economic green sectors in the United States -- Statistical inference of lead-lag between asynchronous time series from p-values of transfer entropy at various timescales -- Part VI: Networks and Mobility -- Extracting Metro Passenger Flow Predictors from Network's Complex Characteristics -- Estimating Peak-Hour Urban Traffic Congestion -- Adaptive Routing Potential in Road Networks -- Part VII: Diffusion and Epidemics -- Detecting Global Community Structure in a COVID-19 Activity Correlation Network -- Overcoming vaccine hesitancy by multiplex social network targeting -- Analyzing Community-aware Centrality Measures Using The Independent Cascade Model -- Paths for emergence of superspreaders in dengue fever spreading network -- Part VIII: Multilayer Networks -- Structural Cores and Problems of Vulnerability of Partially Overlapped Multilayer Networks -- Multilayer Block Models for Exploratory Analysis of Computer Event Logs -- On the Effectiveness of Using Link Weights and Link Direction for Community Detection in Multilayer Networks.

Sommario/riassunto

This book highlights cutting-edge research in the field of network science, offering scientists, researchers, students, and practitioners a unique update on the latest advances in theory and a multitude of

applications. It presents the peer-reviewed proceedings of the XI International Conference on Complex Networks and their Applications (COMPLEX NETWORKS 2022). The carefully selected papers cover a wide range of theoretical topics such as network models and measures; community structure, network dynamics; diffusion, epidemics, and spreading processes; resilience and control as well as all the main network applications, including social and political networks; networks in finance and economics; biological and neuroscience networks and technological networks.
