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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Chapter1. Node-Centric Detection of Overlapping Communities in Social Networks -- Chapter2. Community structures evaluation in complex networks: A descriptive approach -- Chapter3. Do Network Models Just Model Networks? On The Applicability of Network Oriented Modeling -- Chapter4. Visibility of nodes in network growth models -- Chapter5. Topology data analysis of critical transitions in financial networks -- Chapter6. Modeling and Analysis of Glass Ceiling and Power Inequality in Bi-populated Societies -- Chapter7. Elites in Social Networks: An Axiomatic Approach -- Chapter8. Ranking scientific

papers on the basis of their citations growing trend -- Chapter9. Towards network economics: the problem of the network modus of value -- Chapter10. Open Questions in Multidimensional Multilevel Network Science. .

Sommario/riassunto

This book contains original research chapters related to the interdisciplinary field of complex networks spanning biological and environmental networks, social, technological, and economic networks. Many natural phenomena can be modeled as networks where nodes are the primitive compounds and links represent their interactions, similarities, or distances of sorts. Complex networks have an enormous impact on research in various fields like biology, social sciences, engineering, and cyber-security to name a few. The topology of a network often encompasses important information on the functionality and dynamics of the system or the phenomenon it represents. Network science is an emerging interdisciplinary discipline that provides tools and insights to researchers in a variety of domains. NetSci-X is the central winter conference within the field and brings together leading researchers and innovators to connect, meet, and establish interdisciplinary channels for collaboration. It is the largest and best known event in the area of network science. This text demonstrates how ideas formulated by authors with different backgrounds are transformed into models, methods, and algorithms that are used to study complex systems across different domains and will appeal to researchers and students within in the field. .