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[Network Developments in Economic Spatial Systems](#) Dec 19 2021 First published in 1999, the main feature of this book is its multidisciplinary nature, since the book focuses on the complexity of spatial/ economic networks from several methodological points of view. For this purpose both theoretical and empirical works have been included. The aim of the book is to provide an updated and fresh look at the mentioned issue with innovative and creative papers coming from leading experts belonging to different disciplines. Therefore the book could be considered as an expert and critical guide - through different methodological approaches - to the topic of (complex) networks in the space-economy. All the contributions provide innovative and in some cases provocative elements to the understanding of networks and development over space.

[Combinatorial Optimization in Communication Networks](#) May 24 2022 This book gives a comprehensive presentation of cutting-edge research in communication networks with a combinatorial optimization component. The objective of the book is to advance and promote the theory and applications of combinatorial optimization in communication networks. Each chapter is written by an expert dealing with theoretical, computational, or applied aspects of combinatorial optimization.

[Chimera States in Complex Networks](#) Jun 13 2021

[Large Scale Networks](#) Sep 23 2019 This book offers a rigorous analysis of the achievements in the field of traffic control in large networks, oriented on two main aspects: the self-similarity in traffic behaviour and the scale-free characteristic of a complex network. Additionally, the authors propose a new insight in understanding the inner nature of things, and the cause-and-effect based on the identification of relationships and behaviours within a model, which is based on the study of the influence of the topological characteristics of a network upon the traffic behaviour. The effects of this influence are then discussed in order to find new solutions for traffic monitoring and diagnosis and also for traffic anomalies prediction. Although these concepts are illustrated using highly accurate, highly aggregated packet traces collected on backbone Internet links, the results of the analysis can be applied for any complex network whose traffic processes exhibit asymptotic self-similarity, perceived as an adaptability of traffic in networks. However, the problem with self-similar models is that they are computationally complex. Their fitting procedure is very time-consuming, while their parameters cannot be estimated based on the on-line measurements. In this aim, the main objective of this book is to discuss the problem of traffic prediction in the presence of self-similarity and particularly to offer a possibility to forecast future traffic variations and to predict network performance as precisely as possible, based on the measured traffic history.

[Business Marketing: An Interaction and Network Perspective](#) Feb 27 2020 Changing Views of Business Marketing This book aims to provide an in-depth understanding of long-term busi in industrial markets. During the late 1980s our view ness relationships on business marketing changed remarkably. From a single-transaction oriented, market mechanism-based description of marketing and purchas ing, we are moving into domestic and international buyer-seller relation ships. In academic terms, we are experiencing a broadening of the para digms that describe how companies interact. This change in focus has its roots in the recognition that business marketing is frequently characterized by long-term interaction, coopera tion, and coalitions

between participant firms. The forces of quality, total cost management, and the need to decrease response times in new product/service development all are combining to accelerate the trend towards strategic relationships. In increasingly global markets, different forms of strategic alliances provide ways of joining forces in attempts to reach goals beyond any single firm's resources. Also, our way of seeing the corporate environment is changing. In stead of the traditional view of markets or industries as constituted by independent companies operating mainly through market competition, we are starting to realize that markets can be more realistically defined and described as networks of interlinked organizations. The network view offers a highly promising tool for describing and analyzing the rapidly integrating global marketplace. For instance, strategic alliances can be seen as moves of establishing positions in a network or as ways of changing the whole network.

**Introduction to Biological Networks Jul 02 2020** The new research area of genomics-inspired network biology lacks an introductory book that enables both physical/computational scientists and biologists to obtain a general yet sufficiently rigorous perspective of current thinking. Filling this gap, *Introduction to Biological Networks* provides a thorough introduction to genomics-inspired network biology.

**The Oxford Handbook of Political Networks May 12 2021** Networks are omnipresent in our natural and social world, and they are at the heart of politics. Relationships of many types drive political institutions, processes, and decision-making. Therefore, it is imperative for the study of politics to include network approaches. Already, these approaches have advanced our understanding of critical questions, such as: Why do people vote? How can people build problem-solving coalitions? How can governments and organizations foster innovations? How can countries build ties that promote peace? What are the most fruitful strategies for disrupting arms or terrorist networks? This volume is designed as a foundational statement and resource. The contributions offer instruction on network theory and methods at both beginner and advanced levels, as well as an assessment of the state-of-the-discipline on a variety of applied network topics in politics. Through this dynamic collection of essays, *The Oxford Handbook of Political Networks* elucidates how the field is transforming and what that means for the future of political science.

**The Architecture of Productive Learning Networks Aug 27 2022** *The Architecture of Productive Learning Networks* explores the characteristics of productive networked learning situations and, through a series of case studies, identifies some of the key qualities of successful designs. The case studies include networks from a variety of disciplinary and professional fields, including graphic design, chemistry, health care, library science, and teacher education. These learning networks have been implemented in a variety of settings: undergraduate courses in higher education, continuing professional development, and informal networks for creating and sharing knowledge on a particular topic. They are rich in reusable design ideas. The book introduces a framework for analyzing learning networks to show how knowledge, human interaction and physical and digital resources combine in the operation of productive learning networks. The book also argues that learning through interaction in networks has a long history. It combines ideas from architecture, anthropology, archaeology, education, sociology and organizational theory to illustrate and understand networked forms of learning.

**Social Support Measurement and Intervention Apr 30 2020** Surgery and pharmaceuticals are not the only effective procedures we have to improve our health. The natural human tendency to care for fellow humans, to support them with social networks, has proven to be a powerful treatment as well. As a result, the areas of application for social support intervention have expanded dramatically during the past 20 years. As these areas have expanded, so too has the literature on the theory and measurement of social support. Yet, the literature has focussed on very particular areas. Investigators in the social sciences have mainly focused on the protection that social support confers in the context of stressful life events and transitions, whereas studies in the health sciences have concentrated on the effects of social networks and supports on population mortality and morbidity. Although no single theoretical framework has been widely accepted, there is consensus that both the psychological sense of support and actual expressions of support play critical roles in maintaining health and well being. This book is a state-of-the-art resource for the selection and development of strategies for social support assessment and intervention. Designed for use by behavioral and medical scientists conducting studies of physical illness, psychological adjustment, and psychiatric illness in human populations, this volume presents a broad conceptual framework addressing the role of social support in mental and physical health. The book is divided into four sections. The first provides some historical context as well as a conceptual overview of how social support might influence mental and physical health. The second discusses techniques for measuring social networks and support, and the third addresses the design of different types of support interventions. The final section presents some general comments on the volume and its implications for social support research and intervention. This resource is meant to aid researchers in understanding the conceptual criteria on which measurement and intervention decisions should be made when studying the relations between social support and health. Furthermore, the information provided on both measurement and intervention will be valuable to practitioners interested in designing and evaluating prevention and treatment initiatives. Sponsored by the Fetzer Institute as a follow up to their successful 1995 publication, *Measuring Stress*, this book will provide the most up to date research on the effects of social

support interventions on physical and mental health.

Networks of Contact Jul 22 2019 "We are making an interesting break with conventional sociology.... In recent years sociologists, anthropologists, and other students of social behaviour have made considerable use of the network metaphor ... as a peg, as a witching wand, and as a blueprint." -from the Preface by Charles Tilly

*Report of the Eighth Meeting of Regional Fishery Body Secretariats' Network. Rome, 24 February and 25 February - Virtual meeting* Nov 25 2019 Thirty-one regional fishery bodies (RFBs) participated in the Eighth Meeting of the Regional Fishery Body Secretariats' Network (RSN-8). The meeting brought together RFBs with diverse mandates from all geographic regions, including FAO and non-FAO regional fishery bodies, marine and inland fishery advisory and management bodies, the UNDOALOS and other invited organizations. The meeting allowed participants to exchange views and discuss both global fisheries management and development issues in aquaculture, as these related to regional and global processes of particular relevance to RFBs. In addition, RSN-8 provided the opportunity to discuss the development and strengthening of the RSN, as well as a space for reflection on the outcomes of COFI 34 and their implications for regional fishery bodies. The meeting had a high level of participation, which underlined the role of the network as a unique forum in which to foster cooperation, facilitate discussion and share experiences.

Managing Airline Networks Jan 08 2021 *Managing Airline Networks: Design, Integration and Innovative Technologies* is a fully comprehensive description of state-of-the-art network management practices at airlines. Designed as a compendium on current practices and future trends in the field, the book offers an instructive guide through the complex world of non-linear production systems. Written by a renowned consultant and aviation expert, the book discusses the impact of network management on airline resource planning and performance, and examines the interplay between network management and adjacent functions. The book includes a practical case study and is enriched with academic perspectives. Discussing upcoming trends in the sector, the book provides an outlook on advanced technologies that may play a role in next-generation network management. Features include: a description of basic network types, performance indicators for profitable networks, efficient processes and success factors for network management, and common optimisation models and tools; descriptive overviews, supported by practical examples, and leading to a deep-dive case study; a section on trends in network management, outlining new demand forecasting models, 'big data' applications, machine learning and AI use cases, and alternative optimisation models for airlines. *Managing Airline Networks: Design, Integration and Innovative Technologies* is designed as a comprehensive compendium and is essential reading for both aviation practitioners and students of airline management.

Networked Politics Jun 25 2022 The concept of network has emerged as an intellectual centerpiece for our era. Network analysis also occupies a growing place in many of the social sciences. In international relations, however, network has too often remained a metaphor rather than a powerful theoretical perspective. In *Networked Politics*, a team of political scientists investigates networks in important sectors of international relations, including human rights, security agreements, terrorist and criminal groups, international inequality, and governance of the Internet. They treat networks as either structures that shape behavior or important collective actors. In their hands, familiar concepts, such as structure, power, and governance, are awarded new meaning.

Analyzing Social Media Networks with NodeXL Mar 10 2021 *Analyzing Social Media Networks with NodeXL* offers backgrounds in information studies, computer science, and sociology. This book is divided into three parts: analyzing social media, NodeXL tutorial, and social-media network analysis case studies. Part I provides background in the history and concepts of social media and social networks. Also included here is social network analysis, which flows from measuring, to mapping, and modeling collections of connections. The next part focuses on the detailed operation of the free and open-source NodeXL extension of Microsoft Excel, which is used in all exercises throughout this book. In the final part, each chapter presents one form of social media, such as e-mail, Twitter, Facebook, Flickr, and Youtube. In addition, there are descriptions of each system, the nature of networks when people interact, and types of analysis for identifying people, documents, groups, and events. Walks you through NodeXL, while explaining the theory and development behind each step, providing takeaways that can apply to any SNA Demonstrates how visual analytics research can be applied to SNA tools for the mass market Includes case studies from researchers who use NodeXL on popular networks like email, Facebook, Twitter, and wikis Download companion materials and resources at <https://nodexl.codeplex.com/documentation>

Managing (in) Networks Dec 27 2019 This book offers network managers perspectives and practical advice: What is the basis for vibrant networking? What kind of leadership is needed? What are the required tools and steps? This book is based on research and practical work with dozens of networks. D.Sc. (Econ.) Timo Järvensivu has studied and developed public service and non-profit network management for over 15 years, initially as a university researcher and currently as a full-time entrepreneur and trainer.

Global Networks and European Actors Oct 29 2022 This book examines the ability of the EU and European actor networks to coherently and effectively navigate, manage, and influence debates and policy on the

international stage. It also questions whether increasing complexity across a range of critical global issues and networks has affected this ability. Engaging with the growing theoretical and conceptual literature on networks and complexity, the book provides a deeper understanding of how the European Union and European actors navigate within global networks and complex regimes across a range of regulatory, policy cooperation, and foreign and security policy issue areas. It sheds light on how far they are able to respond to and shape solutions to some of the most pressing challenges on the global agenda in the 21st century. This book will be of key interest to scholars and students of EU/European and global networks and more broadly to European and EU studies, Global Governance, International Relations, International Political Economy, and Foreign Policy and Security Studies.

**Governance Networks in the Public Sector** Jan 28 2020 Governance Networks in the Public Sector presents a comprehensive study of governance networks and the management of complexities in network settings. Public, private and non-profit organizations are increasingly faced with complex, wicked problems when making decisions, developing policies or delivering services in the public sector. These activities take place in networks of interdependent actors guided by diverging and sometimes conflicting perceptions and strategies. As a result these networks are dominated by cognitive, strategic and institutional complexities. Dealing with these complexities requires sophisticated forms of coordination: network governance. This book presents the most recent theoretical and empirical insights into governance networks. It provides a conceptual framework and analytical tools to study the complexities involved in handling wicked problems in governance networks in the public sector. The book also discusses strategies and management recommendations for governments, business and third sector organisations operating in and governing networks. Governance Networks in the Public Sector is an essential text for advanced students of public management, public administration, public policy and political science, and for public managers and policymakers.

**Entrepreneurship, Innovation, and Platforms** Oct 05 2020 Despite recent advances in our understanding of how innovation and entrepreneurship impact the creation and appropriation of value, numerous questions remain unanswered. This volume draws together scholars working at the forefront of entrepreneurship-, strategy-, and innovation-related domains to explore these questions.

**Handbook of Cities and Networks** Apr 23 2022 This Handbook of Cities and Networks provides a cutting-edge overview of research on how economic, social and transportation networks affect processes both in and between cities. Exploring the ways in which cities connect and intertwine, it offers a varied set of collaborations, highlighting different theoretical, historical and methodological perspectives.

**New Literacies: Everyday Practices And Social Learning** Oct 17 2021 This timely new edition explores new literacies, knowledge and classroom practices in light of growing electronic information and communication techniques.

**Fundamentals of Complex Networks** Jul 26 2022 Complex networks such as the Internet, WWW, transportation networks, power grids, biological neural networks, and scientific cooperation networks of all kinds provide challenges for future technological development. • The first systematic presentation of dynamical evolving networks, with many up-to-date applications and homework projects to enhance study • The authors are all very active and well-known in the rapidly evolving field of complex networks • Complex networks are becoming an increasingly important area of research • Presented in a logical, constructive style, from basic through to complex, examining algorithms, through to construct networks and research challenges of the future

**Designing Large Scale Lans** Sep 16 2021 This unique book offers a vendor-neutral approach for designing large local area networks according to business or organizational needs, rather than from a product perspective. Author and independent network design consultant Kevin Dooley outlines "top-down network design" for building a technological infrastructure to fit your organization's requirements, a process far more effective and cost-efficient than fitting the organization to the parameters of a shrink-wrapped proprietary solution. Dooley argues that the design of a network is largely independent of the products used. Whether you use a Cisco or Juniper router, the same security issues and protocols apply. The questions he addresses in this book are need-specific: Do I use a router or a switch? Should I route between switched areas or switch between routed areas? Designing Large-Scale LANs covers everything from security, bandwidth and scalability to network reliability, which includes backup, redundancy, and points of failure. Specific technologies are analyzed in detail: network topologies, routing and switching strategies, wireless, virtual LANs, firewalls and gateways, security, Internet protocols, bandwidth, and multicast services. The book also discusses proprietary technologies that are ubiquitous, such as Cisco's IOS and Novell's IPX. This complete guide to top-down network design will help you choose the right network solutions. If you're designing large scale networks and need expert advice and guidance, look no further than Designing Large-Scale LANs.

**International Business in Latin America** Aug 23 2019 This volume in the Academy of International Business Latin America Chapter (AIB-LAT) series presents research findings and theoretical developments in international business, with special emphasis on innovation, geography and internationalization in Latin America. Contributions are based on the best papers from the fourth annual AIB-LAT conference.

**Flow Networks** Nov 06 2020 Repairable flow networks are a new area of research, which analyzes the repair

and flow disruption caused by failures of components in static flow networks. This book addresses a gap in current network research by developing the theory, algorithms and applications related to repairable flow networks and networks with disturbed flows. The theoretical results presented in the book lay the foundations of a new generation of ultra-fast algorithms for optimizing the flow in networks after failures or congestion, and the high computational speed creates the powerful possibility of optimal control of very large and complex networks in real time. Furthermore, the possibility for re-optimizing the network flows in real time increases significantly the yield from real production networks and reduces to a minimum the flow disruption caused by failures. The potential application of repairable flow networks reaches across many large and complex systems, including active power networks, telecommunication networks, oil and gas production networks, transportation networks, water supply networks, emergency evacuation networks, and supply networks. The book reveals a fundamental flaw in classical algorithms for maximising the throughput flow in networks, published since the creation of the theory of flow networks in 1956. Despite the years of intensive research, the classical algorithms for maximising the throughput flow leave highly undesirable directed loops of flow in the optimised networks. These flow loops are associated with wastage of energy and resources and increased levels of congestion in the optimised networks. Includes theory and practical examples to build a deep understanding of the issues Written by the leading scholar and researcher in this emerging field Features powerful software tools for analysis, optimization and control of repairable flow networks

**Recent Advances in Biological Network Analysis** Sep 04 2020 This book reviews recent advances in the emerging field of computational network biology with special emphasis on comparative network analysis and network module detection. The chapters in this volume are contributed by leading international researchers in computational network biology and offer in-depth insight on the latest techniques in network alignment, network clustering, and network module detection. Chapters discuss the advantages of the respective techniques and present the current challenges and open problems in the field. *Recent Advances in Biological Network Analysis: Comparative Network Analysis and Network Module Detection* will serve as a great resource for graduate students, academics, and researchers who are currently working in areas relevant to computational network biology or wish to learn more about the field. Data scientists whose work involves the analysis of graphs, networks, and other types of data with topological structure or relations can also benefit from the book's insights.

***Animal Communication Networks*** Jul 14 2021 Most animal communication has evolved and now takes place in the context of a communication network, i.e. several signallers and receivers within communication range of each other. This idea follows naturally from the observation that many signals travel further than the average spacing between animals. This is self evidently true for long-range signals, but at a high density the same is true for short-range signals (e.g. begging calls of nestling birds). This book provides a current summary of research on communication networks and appraises future prospects. It combines information from studies of several taxonomic groups (insects to people via fiddler crabs, fish, frogs, birds and mammals) and several signalling modalities (visual, acoustic and chemical signals). It also specifically addresses the many areas of interface between communication networks and other disciplines (from the evolution of human charitable behaviour to the psychophysics of signal perception, via social behaviour, physiology and mathematical models).

**Algorithms and Dynamical Models for Communities and Reputation in Social Networks** Dec 07 2020 A persistent problem when finding communities in large complex networks is the so-called resolution limit. This thesis addresses this issue meticulously, and introduces the important notion of resolution-limit-free. Remarkably, only few methods possess this desirable property, and this thesis puts forward one such method. Moreover, it discusses how to assess whether communities can occur by chance or not. One aspect that is often ignored in this field is treated here: links can also be negative, as in war or conflict. Besides how to incorporate this in community detection, it also examines the dynamics of such negative links, inspired by a sociological theory known as social balance. This has intriguing connections to the evolution of cooperation, suggesting that for cooperation to emerge, groups often split in two opposing factions. In addition to these theoretical contributions, the thesis also contains an empirical analysis of the effect of trading communities on international conflict, and how communities form in a citation network with positive and negative links.

**Enabling Technologies and Architectures for Next-Generation Networking Capabilities** Apr 11 2021 With the rise of mobile and wireless technologies, more sustainable networks are necessary to support communication. These next-generation networks can now be utilized to extend the growing era of the Internet of Things. *Enabling Technologies and Architectures for Next-Generation Networking Capabilities* is an essential reference source that explores the latest research and trends in large-scale 5G technologies deployment, software-defined networking, and other emerging network technologies. Featuring research on topics such as data management, heterogeneous networks, and spectrum sensing, this book is ideally designed for computer engineers, technology developers, network administrators and researchers, professionals, and graduate-level students seeking coverage on current and future network technologies.

***Managing Complex Networks*** Jan 20 2022 Although the concept of policy networks is now well-established in the field, most research has to content itself with description and analysis of their contribution to policy

failure. This book goes further. It accepts policy networks as a fundamental characteristic of modern societies and presents an overview of the strategies for the management of these networks, as well as illustrating the various strategies for intervention.

**The Oxford Handbook of Social Networks** Mar 22 2022 While some social scientists may argue that we have always been networked, the increased visibility of networks today across economic, political, and social domains can hardly be disputed. Social networks fundamentally shape our lives and social network analysis has become a vibrant, interdisciplinary field of research. In *The Oxford Handbook of Social Networks*, Ryan Light and James Moody have gathered forty leading scholars in sociology, archaeology, economics, statistics, and information science, among others, to provide an overview of the theory, methods, and contributions in the field of social networks. Each of the thirty-three chapters in this Handbook moves through the basics of social network analysis aimed at those seeking an introduction to advanced and novel approaches to modeling social networks statistically. They cover both a succinct background to, and future directions for, distinctive approaches to analyzing social networks. The first section of the volume consists of theoretical and methodological approaches to social networks, such as visualization and network analysis, statistical approaches to networks, and network dynamics. Chapters in the second section outline how network perspectives have contributed substantively across numerous fields, including public health, political analysis, and organizational studies. Despite the rapid spread of interest in social network analysis, few volumes capture the state-of-the-art theory, methods, and substantive contributions featured in this volume. This Handbook therefore offers a valuable resource for graduate students and faculty new to networks looking to learn new approaches, scholars interested in an overview of the field, and network analysts looking to expand their skills or substantive areas of research.

**Nature-inspired Methods in Chemometrics: Genetic Algorithms and Artificial Neural Networks** Jun 01 2020 In recent years Genetic Algorithms (GA) and Artificial Neural Networks (ANN) have progressively increased in importance amongst the techniques routinely used in chemometrics. This book contains contributions from experts in the field is divided in two sections (GA and ANN). In each part, tutorial chapters are included in which the theoretical bases of each technique are expertly (but simply) described. These are followed by application chapters in which special emphasis will be given to the advantages of the application of GA or ANN to that specific problem, compared to classical techniques, and to the risks connected with its misuse. This book is of use to all those who are using or are interested in GA and ANN. Beginners can focus their attentions on the tutorials, whilst the most advanced readers will be more interested in looking at the applications of the techniques. It is also suitable as a reference book for students. Subject matter is steadily increasing in importance Comparison of Genetic Algorithms (GA) and Artificial Neural Networks (ANN) with the classical techniques Suitable for both beginners and advanced researchers

**Economies of Network Industries** Jun 20 2019 This revealing book examines different types of network industries such as railways, telecommunications and new media, and investigates their economics with an accent on history makes it stand apart from others in the area. Hans Göttinger's accessible writing style and knowledgeable research makes this book recommended reading for all those interested in industrial, innovation and micro policy economics.

**Handbook on the Digital Creative Economy** Mar 30 2020 Digital technologies have transformed the way many creative works are generated, disseminated and used. They have made cultural products more accessible, challenged established business models and the copyright system, and blurred the boundary between

**Personal Networks** Sep 28 2022 Combines classic and cutting-edge scholarship on personal social networks. A must-have resource for both newcomers and seasoned experts.

**Doing Computational Social Science** Aug 03 2020 Computational approaches offer exciting opportunities for us to do social science differently. This beginner's guide discusses a range of computational methods and how to use them to study the problems and questions you want to research. It assumes no knowledge of programming, offering step-by-step guidance for coding in Python and drawing on examples of real data analysis to demonstrate how you can apply each approach in any discipline. The book also: Considers important principles of social scientific computing, including transparency, accountability and reproducibility. Understands the realities of completing research projects and offers advice for dealing with issues such as messy or incomplete data and systematic biases. Empowers you to learn at your own pace, with online resources including screencast tutorials and datasets that enable you to practice your skills and get up to speed. For anyone who wants to use computational methods to conduct a social science research project, this book equips you with the skills, good habits and best working practices to do rigorous, high quality work.

**AI 2012: Advances in Artificial Intelligence** Feb 09 2021 This book constitutes the refereed proceedings of the 25th Australasian Joint Conference on Artificial Intelligence, AI 2012, held in Sydney, Australia, in December 2012. The 76 revised full papers presented were carefully reviewed and selected from 196 submissions. The papers address a wide range of agents, applications, computer vision, constraints and search, game playing, information retrieval, knowledge representation, machine learning, planning and scheduling, robotics and uncertainty in AI.

**Encyclopedia of Social Networks** Feb 21 2022 Request a FREE 30-day online trial to this title at

[www.sagepub.com/freetrial](http://www.sagepub.com/freetrial) This two-volume encyclopedia provides a thorough introduction to the wide-ranging, fast-developing field of social networking, a much-needed resource at a time when new social networks or "communities" seem to spring up on the internet every day. Social networks, or groupings of individuals tied by one or more specific types of interests or interdependencies ranging from likes and dislikes, or disease transmission to the "old boy" network or overlapping circles of friends, have been in existence for longer than services such as Facebook or YouTube; analysis of these networks emphasizes the relationships within the network. This reference resource offers comprehensive coverage of the theory and research within the social sciences that has sprung from the analysis of such groupings, with accompanying definitions, measures, and research. Featuring approximately 350 signed entries, along with approximately 40 media clips, organized alphabetically and offering cross-references and suggestions for further readings, this encyclopedia opens with a thematic Reader's Guide in the front that groups related entries by topics. A Chronology offers the reader historical perspective on the study of social networks. This two-volume reference work is a must-have resource for libraries serving researchers interested in the various fields related to social networks.

**Neural Network Learning and Expert Systems** Oct 25 2019 presents a unified and in-depth development of neural network learning algorithms and neural network expert systems

**Computational Aspects and Applications in Large-Scale Networks** Nov 18 2021 Contributions in this volume focus on computationally efficient algorithms and rigorous mathematical theories for analyzing large-scale networks. Researchers and students in mathematics, economics, statistics, computer science and engineering will find this collection a valuable resource filled with the latest research in network analysis. Computational aspects and applications of large-scale networks in market models, neural networks, social networks, power transmission grids, maximum clique problem, telecommunication networks, and complexity graphs are included with new tools for efficient network analysis of large-scale networks. This proceeding is a result of the 7th International Conference in Network Analysis, held at the Higher School of Economics, Nizhny Novgorod in June 2017. The conference brought together scientists, engineers, and researchers from academia, industry, and government.

**Family and Community Life of Older People** Aug 15 2021 Reflects the interest in how older people are affected by social change which is currently a key theme in social science.

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