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Social Networks at Work Social Networks and their Economics The Oxford Handbook of the Economics of Networks Mining Over Air: Wireless Communication Networks Analytics Networks and Groups Mining and Analyzing Social Networks Neural Networks for Hydrological Modeling Encyclopedia of Social Networks Blockchain Systems and Communication Networks: From Concepts to Implementation The Oxford Handbook of Social Networks Collaborative Networks for a Sustainable World Social Networks, Innovation and the Knowledge Economy Universal Multiservice Networks Social and Economic Networks Managing Security Services in Heterogenous Networks Coherent Optics for Access

Networks Knowledge, Networks and Power Access Networks Social Networks and Health Proceedings of International Conference on Communication and Networks Social Networks and Health Inequalities Multiplex and Multilevel Networks Neural Networks and Statistical Learning Managing Dynamic Networks Hierarchical Topology Control for Wireless Networks Social Networks in Youth and Adolescence e-Business and Telecommunication Networks Networks in Social Policy Problems Issues in Networks Research and Application: 2011 Edition Air Route Networks Through Complex Networks Theory Principles of Wireless Sensor Networks Survivability and Traffic

Grooming in WDM Optical Networks  
Social Networks and the Life Course  
Networks Handbook of Research on Computational Methodologies in Gene Regulatory Networks  
Nature-Inspired Computing Applications in Advanced Communication Networks  
Networks Computational Approaches to Studying the Co-evolution of Networks and Behavior in Social Dilemmas  
Software Defined Mobile Networks (SDMN) A Complete Guide to Wireless Sensor Networks

This book contains the best papers of the First International Conference on e-Business and Telecommunication Networks held in 2004. The book presents recent research on e-business and telecommunication networks. It includes analyses aspects of global communication information systems and services, and describes security and reliability problems and solutions in

information systems and networks. This open access book applies insights from the network perspective in health research to explain the reproduction of health inequalities. It discusses the extant literature in this field that strongly correlates differences in social status with health behaviours and outcomes, and add to this literature by providing a coherent theoretical explanation for the causes of these health inequalities. It also shows that much research is needed on the precise factors and the social and socio-psychological mechanisms that are at play in creating and cementing social inequalities in health behaviours. While social support and social relations have received considerable attention within social and behavioural science research on health inequalities, this book considers the whole network of interpersonal relations, structures and influence mechanisms. This is the perspective of the social

network analytical approach which has recently gained much attention in health research. The chapters of this book cover state-of-the-art research, open research questions, and perspectives for future research. The book provides network analyses on health inequalities from the perspective of sociology, psychology, and public health and is of interest to a wide range of scholars, students and practitioners trying to understand how health inequalities are reproduced across generations. 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. Air Route Networks through Complex Networks Theory connects theory research with network connectivity analysis, providing practitioners with the tools they need to develop more efficient, resilient and profitable air route networks. The book helps airline route planners and executives create more robust route networks that are less vulnerable to disruptions, such as node isolation. The book further explores errors and attacks in complex networks, strategies for detecting critical nodes and cascading failure models to assess and maximize robustness. The book explains how to measure air route network connectivity with complex network representations. Air transport is among the most dynamic and toughest competition industries in today's global economy. The quality of air route network design is a key strategic factor in an airline's viability. These robust networks provide for more stable and secure carrier operations vs. those based

simply on existing supply and demand volumes. Node-specific and network-specific representations are covered, along with in-depth coverage of connectivity in special and temporal networks. These collective tools serve as a guide for practitioners seeking to apply complex network theory to the airline industry. Presents complex networks theory research results applied to airline transportation networks Examines airline network robustness in the face of disruptions, providing strategies for detecting critical nodes of air transport networks Provides historical perspective on the economic, political, technical, and geographical constraints that influence airline route portfolios Connects data from valuable tools, such as navpoints, area control centers (ACC), and flight information centers, with air network modeling Studies spreading-related phenomena, such as rumors, and disease contagions, and how these affect the airline industry "Social networks fundamentally

shape our lives. Networks channel the ways that information, emotions, and diseases flow through populations. Networks reflect differences in power and status in settings ranging from small peer groups to international relations across the globe. Network tools even provide insights into the ways that concepts, ideas and other socially generated contents shape culture and meaning. As such, the rich and diverse field of social network analysis has emerged as a central tool across the social sciences. This Handbook provides an overview of the theory, methods, and substantive contributions of this field. The thirty-three chapters move through the basics of social network analysis aimed at those seeking an introduction to advanced and novel approaches to modeling social networks statistically. The Handbook includes chapters on data collection and visualization, theoretical innovations, links between networks and computational

social science, and how social network analysis has contributed substantively across numerous fields. As networks are everywhere in social life, the field is inherently interdisciplinary and this Handbook includes contributions from leading scholars in sociology, archaeology, economics, statistics, and information science among others"-- The Oxford Handbook of the Economics of Networks represents the frontier of research into how and why networks they form, how they influence behavior, how they help govern outcomes in an interactive world, and how they shape collective decision making, opinion formation, and diffusion dynamics. From a methodological perspective, the contributors to this volume devote attention to theory, field experiments, laboratory experiments, and econometrics. Theoretical work in network formation, games played on networks, repeated games, and the interaction between linking and behavior

is synthesized. A number of chapters are devoted to studying social process mediated by networks. Topics here include opinion formation, diffusion of information and disease, and learning. There are also chapters devoted to financial contagion and systemic risk, motivated in part by the recent financial crises. Another section discusses communities, with applications including social trust, favor exchange, and social collateral; the importance of communities for migration patterns; and the role that networks and communities play in the labor market. A prominent role of networks, from an economic perspective, is that they mediate trade. Several chapters cover bilateral trade in networks, strategic intermediation, and the role of networks in international trade. Contributions discuss as well the role of networks for organizations. On the one hand, one chapter discusses the role of networks for the performance of organizations, while two other chapters

discuss managing networks of consumers and pricing in the presence of network-based spillovers. Finally, the authors discuss the internet as a network with attention to the issue of net neutrality. With the rapid growth of technology in society, communication networks have become a heavily researched topic. Implementing these advanced systems is a challenge, however, due to the abundance of optimization problems within these networks. The use of meta-heuristic algorithms and nature-inspired computing has become a prevalent technique among researchers for solving these complex problems within communication networks. Despite its popularity, this specific computing technique lacks the appropriate amount of research that is needed for professionals to grasp a definite understanding. Nature-Inspired Computing Applications in Advanced Communication Networks is a collection of innovative research on the methods and applications of natural

computation techniques and algorithms within communication systems such as wireless sensor networks, vehicular adhoc networks, and internet of things. While highlighting topics including mobile sensor deployment, routing optimization, and sleep scheduling, this book is ideally designed for researchers, network professionals, computer scientists, mathematicians, developers, scholars, educators, and students seeking to enhance their understanding of nature-inspired computing and its solutions within various advanced communication networks. In this book, the authors illustrate how social networks can play a very significant role in the technological catch up process in moderate innovative countries. Using an innovative approach to the study of entrepreneurship in knowledge-intensive sectors, the book analyses the role of social networks in the access and deployment of the variety of competences and resources

required for the successful creation of knowledge-intensive companies, which has not yet been studied sufficiently in this context. Wireless sensor networks are an emerging technology with a wide range of applications in military and civilian domains. The book begins by detailing the basic principles and concepts of wireless sensor networks, including information gathering, energy management and the structure of sensory nodes. It proceeds to examine advanced topics, covering localisation, topology, security and evaluation of wireless sensor networks, highlighting international research being carried out in this area. Finally, it features numerous examples of applications of this technology to a range of domains, such as wireless, multimedia, underwater and underground wireless sensor networks. The concise but clear presentation of the important principles, techniques and applications of wireless sensor networks makes this guide an excellent

introduction for anyone new to the subject, as well as an ideal reference for practitioners and researchers. Collaborative Networks for a Sustainable World Aiming to reach a sustainable world calls for a wider collaboration among multiple stakeholders from different origins, as the changes needed for sustainability exceed the capacity and capability of any individual actor. In recent years there has been a growing awareness both in the political sphere and in civil society including the business sectors, on the importance of sustainability. Therefore, this is an important and timely research issue, not only in terms of systems design but also as an effort to borrow and integrate contributions from different disciplines when designing and/or governing those systems. The discipline of collaborative networks especially, which has already emerged in many application sectors, shall play a key role in the implementation of effective sustainability strategies. PRO-

VE 2010 focused on sharing knowledge and experiences as well as identifying directions for further research and development in this area. The conference - dressed models, infrastructures, support tools, and governance principles developed for collaborative networks, as important resources to support multi-stakeholder sustainable developments. Furthermore, the challenges of this theme open new research directions for CNs. PRO-VE 2010 held in St. A new approach to the fast-developing world of neural hydrological modelling, this book is essential reading for academics and researchers in the fields of water sciences, civil engineering, hydrology and physical geography. Each chapter has been written by one or more eminent experts working in various fields of hydrological modelling. The book describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN will also



open up new opportunities for traffic, resource and mobility management, as well as impose new challenges on network security. Therefore, the book addresses the main affected areas such as traffic, resource and mobility management, virtualized traffics transportation, network management, network security and techno economic concepts. Moreover, a complete introduction to SDN and SDMN concepts. Furthermore, the reader will be introduced to cutting-edge knowledge in areas such as network virtualization, as well as SDN concepts relevant to next generation mobile networks. Finally, by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband networks. This thoroughly revised new edition looks at the nature of social networks, their changing

configurations, and the forces of influence they unleash in shaping the life experiences of young people between the ages of 12 and 25 years. The author draws on both social and psychological research to apply network thinking to the social relations of youth across the domains of school, work and society. Network thinking examines the pattern and nature of social ties, and analyses how networks channel information, influence and support with effects on a wide range of life experiences. The book comprises eleven chapters, which contain discussion on key topics, such as youth transitions, network analysis, friendship, romantic ties, peer victimization, antisocial behaviour, youth risk-taking, school motivation, career influence, youth citizenship, and community organizations for young people. Chapters contain discussions of practical ways in which schools can provide support, and suggestions for youth organizations on how to assist young people to become

effective citizens. Collaboration of organizations reshapes traditional managerial practices and creates new inter-organizational contexts for strategy, coordination and control, information and knowledge management. Heralded as organizational forms of the future, networks are at the same time fragile and precarious organizational arrangements, which regularly fail. In order to investigate the new realities created by technology-enabled forms of network organizations and to address the emerging managerial challenges, this book introduces an integrative view on inter-firm network management. Centred on a network life cycle perspective, strategic, economic and relational facets of business networking are explored. The network management framework is illustrated onto a broad range of European inter-firm network examples in various industries rendering insights for new management practices. A heterogeneous network is a network which

connects computers and other devices with different operating systems, protocols, or access technologies. By definition, managing heterogenous networks is more difficult than homogenous networks. Confidentiality, integrity, availability (CIA) remain the foundation of security. This book sheds light upon security threats, defenses, and remediation on various networking and data processing domains, including wired networks, wireless networks, mobile ad-hoc networks, wireless sensor networks, and social networks through the prisms of confidentiality, integrity, availability, authentication, and access control. The book is broken into different chapters that explore central subjects and themes in the development of the heterogenous networks we see today. The chapters look at: Access control methods in cloud-enabled Internet of Things Secure routing algorithms for mobile ad-hoc networks Building security trust in mobile ad-hoc networks

using soft computing methods  
The use and development of  
Blockchain technology, with a  
particular focus on the nonce-  
free hash generation in  
Blockchain Password  
authentication and keystroke  
biometrics Health care data  
analytics over Big Data  
Bluetooth: and its open issues  
for managing security services  
in heterogenous networks  
Managing Security Services in  
Heterogenous Networks will be  
a valuable resource for a whole  
host of undergraduate and  
postgraduate students studying  
related topics, as well as career  
professionals who have to  
effectively manage  
heterogenous networks in the  
workplace. When Murat Sertel  
asked us whether we would be  
interested in organizing a  
special issue of the Review of  
Economic Design on the  
formation of networks and  
groups, we were happy to  
accept because of the growing  
research on this important  
topic. We were also pleasantly  
surprised at the response to  
our request for submissions to  
the special issue, receiving a

much larger number of sub-  
missions than we had  
anticipated. In the end we were  
able to put together two special  
issues of insightful papers on  
this topic. Given the growing  
interest in this topic, we also  
decided (with encouragement  
from Murat) to combine the  
special issues in the form of a  
book for wider dissemination.  
However, once we had decided  
to edit the book, it was natural  
to move beyond the special  
issue to include at least some  
of the papers that have been  
influential in the literature on  
the formation of networks.  
These papers were published in  
other journals, and we are very  
grateful to the authors as well  
as the journals for permission  
to include these papers in the  
book. This book provides  
comprehensive coverage of the  
major aspects in designing,  
implementing, and deploying  
wireless sensor networks by  
discussing present research on  
WSNs and their applications in  
various disciplines. It  
familiarizes readers with the  
current state of WSNs and how  
such networks can be improved

to achieve effectiveness and efficiency. It starts with a detailed introduction of wireless sensor networks and their applications and proceeds with layered architecture of WSNs. It also addresses prominent issues such as mobility, heterogeneity, fault-tolerance, intermittent connectivity, and cross layer optimization along with a number of existing solutions to stimulate future research. Networks of relationships help determine the careers that people choose, the jobs they obtain, the products they buy, and how they vote. The many aspects of our lives that are governed by social networks make it critical to understand how they impact behavior, which network structures are likely to emerge in a society, and why we organize ourselves as we do. In *Social and Economic Networks*, Matthew Jackson offers a comprehensive introduction to social and economic networks, drawing on the latest findings in economics, sociology, computer science, physics, and

mathematics. He provides empirical background on networks and the regularities that they exhibit, and discusses random graph-based models and strategic models of network formation. He helps readers to understand behavior in networked societies, with a detailed analysis of learning and diffusion in networks, decision making by individuals who are influenced by their social neighbors, game theory and markets on networks, and a host of related subjects. Jackson also describes the varied statistical and modeling techniques used to analyze social networks. Each chapter includes exercises to aid students in their analysis of how networks function. This book is an indispensable resource for students and researchers in economics, mathematics, physics, sociology, and business. Order from chaos is simultaneously a mantra of physics and a reality in biology. Physicist Norman Packard suggested that life developed and thrives at the edge of chaos. Questions

remain, however, as to how much practical knowledge of biology can be traced to existing physical principles, and how much physics has to change in order to address the complexity of biology. Phil Anderson, a physics Nobel laureate, contributed to popularizing a new notion of the end of "reductionism." In this view, it is necessary to abandon the quest of reducing complex behavior to known physical results, and to identify emergent behaviors and principles. In the present book, however, we have sought physical rules that can underlie the behavior of biota as well as the geochemistry of soil development. We looked for fundamental principles, such as the dominance of water flow paths with the least cumulative resistance, that could maintain their relevance across a wide range of spatial and temporal scales, together with the appropriate description of solute transport associated with such flow paths. Thus, ultimately, we address both nutrient and water transport

limitations of processes from chemical weathering to vascular plant growth. The physical principles guiding our effort are established in different, but related concepts and fields of research, so that in fact our book applies reductionist techniques guided by analogy. The fact that fundamental traits extend across biotic and abiotic processes, i.e., the same fluid flow rate is relevant to both, but that distinctions in topology of the connected paths lead to dramatic differences in growth rates, helps unite the study of these nominally different disciplines of geochemistry and geobiology within the same framework. It has been our goal in writing this book to share the excitement of learning, and one of the most exciting portions to us has been the ability to bring some order to the question of the extent to which soils can facilitate plant growth, and what limitations on plant sizes, metabolism, occurrence, and correlations can be formulated

thereby. While we bring order to the soil constraints on growth, we also generate some uncertainties in the scaling relationships of plant growth and metabolism. Although we have made an first attempt to incorporate edaphic constraints into allometric scaling, this is but an initial foray into the forest. This book introduces the concepts, applications and development of data science in the telecommunications industry by focusing on advanced machine learning and data mining methodologies in the wireless networks domain. Mining Over Air describes the problems and their solutions for wireless network performance and quality, device quality readiness and returns analytics, wireless resource usage profiling, network traffic anomaly detection, intelligence-based self-organizing networks, telecom marketing, social influence, and other important applications in the telecom industry. Written by authors who study big data analytics in

wireless networks and telecommunication markets from both industrial and academic perspectives, the book targets the pain points in telecommunication networks and markets through big data. Designed for both practitioners and researchers, the book explores the intersection between the development of new engineering technology and uses data from the industry to understand consumer behavior. It combines engineering savvy with insights about human behavior. Engineers will understand how the data generated from the technology can be used to understand the consumer behavior and social scientists will get a better understanding of the data generation process. The advent of fiber optic transmission systems and wavelength division multiplexing (WDM) have led to a dramatic increase in the usable bandwidth of single fiber systems. This book provides detailed coverage of survivability (dealing with the risk of losing large volumes of

traffic data due to a failure of a node or a single fiber span) and traffic grooming (managing the increased complexity of smaller user requests over high capacity data pipes), both of which are key issues in modern optical networks. A framework is developed to deal with these problems in wide-area networks, where the topology used to service various high-bandwidth (but still small in relation to the capacity of the fiber) systems evolves toward making use of a general mesh. Effective solutions, exploiting complex optimization techniques, and heuristic methods are presented to keep network problems tractable. Newer networking technologies and efficient design methodologies are also described. Social Networks at Work provides the latest thinking, from top-notch experts, on social networks as they apply to industrial and organizational (I/O) psychology. Each chapter provides an in-depth review along with discussions of future research and managerial

implications of the social network perspective. Altogether, the volume illustrates the importance of adding a social capital perspective to the traditional human capital focus of I/O psychology. The volume is organized into two groups of chapters: the first seven chapters focus on specific network concepts (such as centrality, affect, negative ties, multiplexity, cognition, and structural holes) applied across a variety of topics. The remaining eight chapters focus on common I/O topics (such as personality, creativity, turnover, careers, person-environment fit, employment, teams, and leadership) and examine each from a network perspective, applying a variety of network concepts to the topic. This volume is suited for students and academics interested in applying a social network perspective to their work, as well as for practicing managers. Each topic area provides a useful review and guide for future research, as

well as implications for managerial action. This volume engages the interface between the development of human lives and social relational networks. It focuses on the integration of two subfields of sociology/social science--the life course and social networks. Research practitioners studying social networks typically focus on social structure or social organization, ignoring the complex lives of the people in those networks. At the same time, life course researchers tend to focus on individual lives without necessarily studying the contexts of social relationships in which lives are embedded and "linked" to one another through social networks. These patterns are changing and this book creates an audience of researchers who will better integrate the two subfields. It covers the role of social networks across the life span, from childhood and adolescence, to midlife, through old age. With the rapid growth of the Internet as well as the increasing demand for

broadband services, access networks have been receiving growing investments in recent years. This has led to a massive network deployment with the goal of eliminating the bandwidth bottleneck between end-users and the network core. Today many diverse technologies are being used to provide broadband access to end users. The architecture and performance of the access segment (local loop, wired and wireless access networks, and even home networks) are getting increasing attention for ensuring quality of service of diverse broadband applications. Moreover, most access lines will no longer terminate on a single device, thus leading to the necessity of having a home network designed for applications that transcend simple Internet access sharing among multiple personal computers and enable multimedia support. Therefore, the access network and its home portion have become a hot investment pool from both a financial as well as a research perspective. The aim of the



annual International Conference on Access Networks (AccessNets) is to provide a forum that brings together scientists and researchers from academia as well as managers and engineers from the industry and government organizations to meet and exchange ideas and recent work on all aspects of access networks and how they integrate with their in-home counterparts. After Athens in 2006, Ottawa in 2007, and Las Vegas in 2008, this year AccessNets moved to Asia for the first time. First Published in 2018. Routledge is an imprint of Taylor & Francis, an Informa company. The science of networks represented a substantial change in the way we see natural and technological phenomena. Now we have a better understanding that networks are, in most cases, networks of networks or multi-layered networks. This book provides a summary of the research done during one of the largest and most multidisciplinary projects in

network science and complex systems (Multiplex). The science of complex networks originated from the empirical evidence that most of the structures of systems such as the internet, sets of protein interactions, and collaboration between people, share (at least qualitatively) common structural properties. This book examines how properties of networks that interact with other networks can change dramatically. The authors show that, dependent on the properties of links that interconnect two or more networks, we may derive different conclusions about the function and the possible vulnerabilities of the overall system of networks. This book presents a series of novel theoretical results together with their applications, providing a comprehensive overview of the field. Issues in Networks Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Networks Research and

Application. The editors have built Issues in Networks Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Networks Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Networks Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Network science is the key to managing social communities, designing the

structure of efficient organizations and planning for sustainable development. This book applies network science to contemporary social policy problems. In the first part, tools of diffusion and team design are deployed to challenges in adoption of ideas and the management of creativity. Ideas, unlike information, are generated and adopted in networks of personal ties. Chapters in the second part tackle problems of power and malfeasance in political and business organizations, where mechanisms in accessing and controlling informal networks often outweigh formal processes. The third part uses ideas from biology and physics to understand global economic and financial crises, ecological depletion and challenges to energy security. Ideal for researchers and policy makers involved in social network analysis, business strategy and economic policy, it deals with issues ranging from what makes public advisories effective to how networks

influence excessive executive compensation. Computational Approaches to Studying the Co-evolution of Networks and Behaviour in Social Dilemmas shows students, researchers, and professionals how to use computation methods, rather than mathematical analysis, to answer research questions for an easier, more productive method of testing their models. Illustrations of general methodology are provided and explore how computer simulation is used to bridge the gap between formal theoretical models and empirical applications. This book provides an introduction to the major theories, methods, models, and findings of social network analysis research and application with attention to medical and public health topics. This book presents more than four decades of research in international business at the Department of Business Studies, Uppsala University. Gradually, this research has been recognized as 'The Uppsala School'. The work in Uppsala over the years

reflects a broad palette of issues and approaches. This book provides extensive insights on blockchain systems, starting from a historical perspective and moving towards building foundational knowledge, with focus on communication networks. It covers blockchain applications, algorithms, architectures, design and implementation, and security and privacy issues, providing the reader with a comprehensive overview. Further, it discusses blockchain systems and its integration to communication networks. The book includes hands-on, practical tutorials, self-assessment exercises, and review questions; tips and sample programs are also provided throughout. Complementary supporting material for instructors, including open source programming code for practical tutorials and exercises, is also available. The target audience includes graduate students, professionals, and researchers working in the areas of

blockchain systems, distributed ledger technology, computer networks and communications, artificial intelligence, and cybersecurity. Reveals how consumer choice can be better understood and influenced using social networks analysis (SNA) Intuitively, we all appreciate that we can be influenced by our friends and peers in what we do, how we behave, and what products we consume. Until recently, it has been difficult to measure this interdependence, mainly because data on social networks was difficult to collect and not readily available. More and more companies such as mobile phone carriers or social networking sites such as Facebook are collecting such data electronically. Daniel Birke illustrates in compelling real-world case studies how companies use social networks for marketing purposes and which statistical analysis and unique datasets can be used. Social Networks and their Economics: Explores network effects and the analysis of social

networks, whilst providing an overview of the state-of-the-art research. Looks at consumption interdependences between friends and peers: Who is influencing who through which channels and to what degree? Presents statistical methods and research techniques that can be used in the analysis of social networks. Examines SNA and its practical application for marketing purposes. Features a supporting website [http://www.wiley.com/go/social\\_networks](http://www.wiley.com/go/social_networks) featuring SNA visualizations and business case studies. Aimed at post-graduate students involved in social network analysis, industrial economics, innovation and consumer marketing, this book offers a unique perspective from both an academic and practitioner point of view on how social networks can help understand and influence consumer behaviour. This book will prove to be a useful resource for marketing practitioners from

companies where social network data is available and for consulting companies who advise businesses on marketing and social media related issues. This book provides a broad yet detailed introduction to neural networks and machine learning in a statistical framework. A single, comprehensive resource for study and further research, it explores the major popular neural network models and statistical learning approaches with examples and exercises and allows readers to gain a practical working understanding of the content. This updated new edition presents recently published results and includes six new chapters that correspond to the recent advances in computational learning theory, sparse coding, deep learning, big data and cloud computing. Each chapter features state-of-the-art descriptions and significant research findings. The topics covered include: • multilayer perceptron; • the Hopfield network; • associative memory models; • clustering

models and algorithms; • the radial basis function network; • recurrent neural networks; • nonnegative matrix factorization; • independent component analysis; • probabilistic and Bayesian networks; and • fuzzy sets and logic. Focusing on the prominent accomplishments and their practical aspects, this book provides academic and technical staff, as well as graduate students and researchers with a solid foundation and comprehensive reference on the fields of neural networks, pattern recognition, signal processing, and machine learning. Mining social networks has now become a very popular research area not only for data mining and web mining but also social network analysis. Data mining is a technique that has the ability to process and analyze large amount of data and by this to discover valuable information from the data. In recent year, due to the growth of social communications and social networking websites, data mining becomes a very

important and powerful technique to process and analyze such large amount of data. Thus, this book will focus upon Mining and Analyzing social network. Some chapters in this book are extended from the papers that presented in MSNDS2009 (the First International Workshop on Mining Social Networks for Decision Support) and SNMABA2009 ((The International Workshop on Social Networks Mining and Analysis for Business Applications)). In addition, we also sent invitations to researchers that are famous in this research area to contribute for this book. The chapters of this book are introduced as follows: In chapter 1-Graph Model for Pattern Recognition in Text, Qin Wu et al. present a novel approach that uses a weighted directed multigraph for text pattern recognition. In the proposed methodology, a weighted directed multigraph model has been set up by using the distances between the keywords as the weights of arcs as well a keyword-

frequency distance based algorithm has also been introduced. Case studies are also included in this chapter to show the performance is better than traditional means. This book will highlight the motivation for coherent optics in access and introduce digital coherent optical system in detail, including advanced modulation formats, architecture of modulation and detection, and DSP flow for both transmitter and receiver. This book will also demonstrate potential approaches to re-design and re-engineer the digital coherent concept from long-haul and metro solutions to the access network, leveraging reduction in complexity and cost as well as the benefits of capacity increases and operational improvements. This book will illustrate the details on optimization of the digital, optical, and electrical complexity and standardization and interoperability. The volume contains 75 papers presented at International Conference on Communication

and Networks (COMNET 2015) held during February 19-20, 2016 at Ahmedabad Management Association (AMA), Ahmedabad, India and organized by Computer Society of India (CSI), Ahmedabad Chapter, Division IV and Association of Computing Machinery (ACM), Ahmedabad Chapter. The book aims to provide a forum to researchers to propose theory and technology on the networks and services, share their experience in IT and telecommunications industries and to discuss future management solutions for communication systems, networks and services. It comprises of original contributions from researchers describing their original, unpublished, research contribution. The papers are mainly from 4 areas - Security, Management and Control, Protocol and Deployment, and Applications. The topics covered in the book are newly emerging algorithms, communication systems, network standards, services,

and applications. On behalf of the Organizing and Program Committees of the 3rd European Conference on Universal Multiservice Networks (ECUMN 2004), it is our great pleasure to introduce the proceedings of ECUMN 2004, which was held during October 25-27, 2004, in Porto, Portugal. In response to the Call for Papers, a total of 131 papers were submitted from 29 countries. Each paper was reviewed by several members of the Technical Program Committee or by external peer reviewers. After careful assessment of thereviews,53paperswereacceptedforpresentationin13technicalsessions;half of them originated from countries outside Europe (mainly Asia). This illustrates the strong interest of this conference beyond its original geographical area. The conference program covered a variety of leading-edge research topics which are of current interest, such as wireless networks, mobile ad hoc networks, sensor networks,

mobility management, optical networks, quality of service and traffic, transport protocols, real-time and multimedia, Internet technologies and applications, overlay and virtual private networks, security and privacy, and network operations and management. Together with three plenary sessions from France Télécom, Siemens, and Cisco Systems, these technical presentations - dressed the latest research results from the international industry and academia and reported on findings on present and future multiservice networks. "This book focuses on methods widely used in modeling gene networks including structure discovery, learning, and optimization"-- Provided by publisher.

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