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# Network Science

Complexity in Nature and Technology



Springer

# Network Science Complexity In Nature And Technology

**Kevin Curtin, Daniel R. Montello**



## **Network Science Complexity In Nature And Technology:**

Network Science Ernesto Estrada, Maria Fox, Desmond J. Higham, Gian-Luca Oppo, 2010-08-24 Network Science is the emerging field concerned with the study of large realistic networks This interdisciplinary endeavor focusing on the patterns of interactions that arise between individual components of natural and engineered systems has been applied to data sets from activities as diverse as high throughput biological experiments online trading information smart meter utility supplies and pervasive telecommunications and surveillance technologies This unique text reference provides a fascinating insight into the state of the art in network science highlighting the commonality across very different areas of application and the ways in which each area can be advanced by injecting ideas and techniques from another The book includes contributions from an international selection of experts providing viewpoints from a broad range of disciplines It emphasizes networks that arise in nature such as food webs protein interactions gene expression and neural connections and in technology such as finance airline transport urban development and global trade Topics and Features begins with a clear overview chapter to introduce this interdisciplinary field discusses the classic network science of fixed connectivity structures including empirical studies mathematical models and computational algorithms examines time dependent processes that take place over networks covering topics such as synchronisation and message passing algorithms investigates time evolving networks such as the World Wide Web and shifts in topological properties connectivity spectrum percolation explores applications of complex networks in the physical and engineering sciences looking ahead to new developments in the field Researchers and professionals from disciplines as varied as computer science mathematics engineering physics chemistry biology ecology neuroscience epidemiology and the social sciences will all benefit from this topical and broadoverview of current activities and grand challenges in the unfolding field of network science

## **Network-Based Analysis of Dynamical Systems**

Dániel Leitold, Ágnes Vathy-Fogarassy, János Abonyi, 2020-01-13 This book explores the key idea that the dynamical properties of complex systems can be determined by effectively calculating specific structural features using network science based analysis Furthermore it argues that certain dynamical behaviours can stem from the existence of specific motifs in the network representation Over the last decade network science has become a widely applied methodology for the analysis of dynamical systems Representing the system as a mathematical graph allows several network based methods to be applied and centrality and clustering measures to be calculated in order to characterise and describe the behaviours of dynamical systems The applicability of the algorithms developed here is presented in the form of well known benchmark examples The algorithms are supported by more than 50 figures and more than 170 references taken together they provide a good overview of the current state of network science based analysis of dynamical systems and suggest further reading material for researchers and students alike The files for the proposed toolbox can be downloaded from a corresponding website

A

*Complex Systems Perspective of Communication from Cells to Societies* Anamaria Berea, 2019-03-20 This book is an

interdisciplinary effort to understand the evolution of communication from cells to societies both in living organisms and in non living ones such as designed or emergent systems from socio technological innovations i e digital communication institutional communication It aims to provide better understanding of the universal versus contextual patterns of communication that we can potentially classify and identify if we look deeper into the history and evolution of this phenomenon at large Novel research from a variety of disciplines such as information theory biology linguistics culture and social science that take a complex perspective is being explored for an integrated understanding of what communication is at a fundamental level

**A Decadal Survey of the Social and Behavioral Sciences** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Behavioral, Cognitive, and Sensory Sciences, Committee on a Decadal Survey of Social and Behavioral Sciences for Applications to National Security, 2019-07-26 The primary function of the intelligence analyst is to make sense of information about the world but the way analysts do that work will look profoundly different a decade from now Technological changes will bring both new advances in conducting analysis and new risks related to technologically based activities and communications around the world Because these changes are virtually inevitable the Intelligence Community will need to make sustained collaboration with researchers in the social and behavioral sciences SBS a key priority if it is to adapt to these changes in the most productive ways A Decadal Survey Of The Social and Behavioral Sciences provides guidance for a 10 year research agenda This report identifies key opportunities in SBS research for strengthening intelligence analysis and offers ideas for integrating the knowledge and perspectives of researchers from these fields into the planning and design of efforts to support intelligence analysis

*Data Science and Complex Networks* Guido Caldarelli, Alessandro Chessa, 2016 This book guides the reader in the analysis of big data by providing theoretical and practical instruments to tame the complexity of such systems Together with support provided by the companion website it constitutes a simple and useful handbook for data analysts

*Theoretical Physics for Biological Systems* Paola Lecca, Angela Re, 2019-01-30 Quantum physics provides the concepts and their mathematical formalization that lend themselves to describe important properties of biological networks topology such as vulnerability to external stress and their dynamic response to changing physiological conditions A theory of networks enhanced with mathematical concepts and tools of quantum physics opens a new area of biological physics the one of systems biological physics

**Natural Pharmaceuticals and Green Microbial Technology** Debarshi Kar Mahapatra, Ravindra S. Shinde, Aishwarya A. Andhare, A. K. Haghi, 2021-02-22 This volume presents some of the latest research and applications in using natural substances and processes for pharmaceutical products It presents an in depth examination of the chemical and biological properties of selected natural products that are either currently used or have the potential for useful applications in the chemical and pharmaceutical industries It covers emerging technologies and case studies and is a source of up to date information on the topical subject of natural products and microbial technology It

provides an applied overview of the field from traditional medicinal targets to cutting edge molecular techniques Natural products have always been of key importance to drug discovery but as modern techniques and technologies have allowed researchers to identify isolate extract and synthesize their active compounds in new ways they are once again coming to the forefront of drug discovery

*Blockchain and cryptocurrencies technologies and network structures: applications, implications and beyond* Lisa Morhaim, Blockchain technology is bringing together concepts and operations from several fields including computing communications networks cryptography and has broad implications and consequences thus encompassing a wide variety of domains and issues including Network Science computer science economics law geography etc The aim of the paper is to provide a synthetic sketch of issues raised by the development of Blockchains and Cryptocurrencies these issues are mainly presented through the link between on one hand the technological aspects i e involved technologies and networks structures and on the other hand the issues raised from applications to implications We believe the link is a two sided one The goal is that it may contribute facilitating bridges between research areas

**Models of the Ecological Hierarchy**, 2012-12-31 In the application of statistics to ecological inference problems hierarchical models combine explicit models of ecological system structure or dynamics with models of how ecological systems are observed The principles of hierarchical modeling are applied in this book to a wide range of problems ranging from the molecular level through populations ecosystems landscapes networks through to the global ecosphere Provides an excellent introduction to modelling Collects together in one source a wide range of modelling techniques Covers a wide range of topics from the molecular level to the global ecosphere

**Graph-Based Representations in Pattern Recognition** Xiaoyi Jiang, Miquel Ferrer, Andrea Torsello, 2011-05-05 This book constitutes the refereed proceedings of the 8th IAPR TC 15 International Workshop on Graph Based Representations in Pattern Recognition GbRPR 2011 held in M nster Germany in May 2011 The 34 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on graph based representation and characterization graph matching classification and querying graph based learning graph based segmentation and applications

**Large-Scale Networks in Engineering and Life Sciences** Peter Benner, Rolf Findeisen, Dietrich Flockerzi, Udo Reichl, Kai Sundmacher, 2014-10-21 This edited volume provides insights into and tools for the modeling analysis optimization and control of large scale networks in the life sciences and in engineering Large scale systems are often the result of networked interactions between a large number of subsystems and their analysis and control are becoming increasingly important The chapters of this book present the basic concepts and theoretical foundations of network theory and discuss its applications in different scientific areas such as biochemical reactions chemical production processes systems biology electrical circuits and mobile agents The aim is to identify common concepts to understand the underlying mathematical ideas and to inspire discussions across the borders of the various disciplines The book originates from the interdisciplinary summer school Large Scale Networks in Engineering and Life

Sciences hosted by the International Max Planck Research School Magdeburg September 26 30 2011 and will therefore be of interest to mathematicians engineers physicists biologists chemists and anyone involved in the network sciences In particular due to their introductory nature the chapters can serve individually or as a whole as the basis of graduate courses and seminars future summer schools or as reference material for practitioners in the network sciences Network Science In Education Catherine B. Cramer, Mason A. Porter, Hiroki Sayama, Lori Sheetz, Stephen Miles Uzzo, 2018-10-22 Around the globe there is an increasingly urgent need to provide opportunities for learners to embrace complexity to develop the many skills and habits of mind that are relevant to today's complex and interconnected world and to make learning more connected to our rapidly changing workplace and society This presents an opportunity to 1 leverage new paradigms for understanding the structure and function of teaching and learning communities and 2 to promote new approaches to developing methods curricular materials and resources Network science the study of connectivity can play an important role in these activities both as an important subject in teaching and learning and as a way to develop interconnected curricula Since 2010 an international community of network science researchers and educators has come together to raise the global level of network literacy by applying ideas from network science to teaching and learning Network Science in Education which refers to both this community and to its activities has evolved in response to the escalating activity in the field of network science and the need for people to be able to access the field through education channels Network Science In Education Transformational Approaches in Teaching and Learning appeals to both instructors and professionals while offering case studies from a wide variety of activities that have been developed around the globe the creation of entirely new courses and degree programs tools for K 20 learners teachers and the general public and in depth analysis of selected programs As network based pedagogy and the community of practice continues to grow we hope that the book's readers will join this vibrant network education community to build on these nascent ideas and help deepen the understanding of networks for all learners

*Handbook of Statistical Systems Biology* Michael Stumpf, David J. Balding, Mark Girolami, 2011-09-09 Systems Biology is now entering a mature phase in which the key issues are characterising uncertainty and stochastic effects in mathematical models of biological systems The area is moving towards a full statistical analysis and probabilistic reasoning over the inferences that can be made from mathematical models This handbook presents a comprehensive guide to the discipline for practitioners and educators in providing a full and detailed treatment of these important and emerging subjects Leading experts in systems biology and statistics have come together to provide insight in to the major ideas in the field and in particular methods of specifying and fitting models and estimating the unknown parameters This book Provides a comprehensive account of inference techniques in systems biology Introduces classical and Bayesian statistical methods for complex systems Explores networks and graphical modeling as well as a wide range of statistical models for dynamical systems Discusses various applications for statistical systems biology such as gene regulation and signal transduction

Features statistical data analysis on numerous technologies including metabolic and transcriptomic technologies Presents an in depth presentation of reverse engineering approaches Provides colour illustrations to explain key concepts This handbook will be a key resource for researchers practising systems biology and those requiring a comprehensive overview of this important field

**Information Technology - New Generations** Shahram Latifi,2017-07-15 This volume presents a collection of peer reviewed scientific articles from the 14th International Conference on Information Technology New Generations held at the University of Nevada at Las Vegas on April 10 12 at Tuscany Suites Hotel in Las Vegas The Book of Chapters addresses critical areas of information technology including web technology communications computing architectures software engineering security and data mining

Econophysics of Agent-Based Models Frédéric Abergel,Hideaki Aoyama,Bikas K. Chakrabarti,Anirban Chakraborti,Asim Ghosh,2013-09-07 The primary goal of this book is to present the research findings and conclusions of physicists economists mathematicians and financial engineers working in the field of Econophysics who have undertaken agent based modelling comparison with empirical studies and related investigations Most standard economic models assume the existence of the representative agent who is perfectly rational and applies the utility maximization principle when taking action One reason for this is the desire to keep models mathematically tractable no tools are available to economists for solving non linear models of heterogeneous adaptive agents without explicit optimization In contrast multi agent models which originated from statistical physics considerations allow us to go beyond the prototype theories of traditional economics involving the representative agent This book is based on the Econophys Kolkata VII Workshop at which many such modelling efforts were presented In the book leading researchers in their fields report on their latest work consider recent developments and review the contemporary literature

*Researching Medical Education* Jennifer Cleland,Steven J. Durning,2015-06-18 Researching Medical Education is an authoritative guide to excellence in educational research in the health professions Presented by the Association for the Study of Medical Education and the Association for Medical Education in Europe Researching Medical Education includes contributions from a team of international clinicians and non clinical researchers in health education representing a range of disciplines and backgrounds This accessible reference provides readers with the basic building blocks of research introduces a range of theories and how to use them illustrates a diversity of methods and their use and gives guidance on practical researcher development By linking theory and design and methods across the health profession education research spectrum this book supports the improvement of quality capacity building and knowledge generation Researching Medical Education is the ideal resource for anyone researching health education from undergraduate through postgraduate training to continuing professional development

*Collective Spatial Cognition* Kevin Curtin,Daniel R. Montello,2023-10-02 This book integrates the science of spatial cognition and the science of team cognition to explore the social psychological and behavioral phenomenon of spatial cognition as it occurs in human collectives such as dyads and work teams It represents the culmination of a process of

outlining and defining a growing field of research termed Collective Spatial Cognition It engages contributions from an international and multi disciplinary community of scholars who have collaborated to provide a foundation for knowledge discovery regarding how groups of people of varying size acquire information and solve problems involving spatiality as a key component leading to action that incorporates the spatial information and problem solving collectively achieved The collectives under study can be as small as dyads teams of two to large teams of teams who are working alongside each other to complete a mutual goal The book lays the foundation for multi and interdisciplinary work regarding Collective Spatial Cognition in the years to come and this book documents that foundation This book will be of interest to those researching spatial behavioural cognitive and information sciences in the fields of human geography sociology psychology and computer science

**Perturbation, Behavioural Feedbacks, and Population Dynamics in Social Animals** Daniel Oro,2020 In social animals perturbations may trigger specific behavioural responses with consequences for dispersal and complex population dynamics Perturbations raise the need for information gathering in order to reduce uncertainty and increase resilience Updated information is then shared within the group and social behaviours emerge as a self organized process This social information factorizes with the size of the group and it is finally used for making crucial decisions about for instance when to leave the patch and where to go Indeed evolution has favoured philopatry over dispersal and this trade off is challenged by perturbations When perturbations accumulate over time they may decrease the suitability of the patch and erode the philopatric state until crossing a tipping point beyond which most individuals decide to disperse to better areas Initially the decision to disperse is led by a few individuals and this decision is copied by the rest of the group in an autocatalytic way This feedback process of social copying is termed runaway dispersal Furthermore social copying enhances the evolution of cultural and technological innovation which may cause additional nonlinearities for population dynamics Social information gathering and social copying have also occurred in human evolution especially after perturbations such as climate extremes and warfare In summary social feedback processes cause nonlinear population dynamics including hysteresis and critical transitions from philopatry to patch collapses and invasions which emerge from the collective behaviour of large ensembles of individuals

*Social Networking and Community Behavior Modeling: Qualitative and Quantitative Measures* Safar, Maytham,Mahdi, Khaled,2011-12-31 Social Networking and Community Behavior Modeling Qualitative and Quantitative Measures provides a clear and consolidated view of current social network models This work explores new methods for modeling characterizing and constructing social networks Chapters contained in this book study critical security issues confronting social networking the emergence of new mobile social networking devices and applications network robustness and how social networks impact the business aspects of organizations

*Complex Heterogeneous Systems* Markus Schmuck,2024-04-22 The author s research on energy storage systems generally was confronted with five characteristics i e complex interacting transporting reacting and heterogeneous systems Hence we refer



to these kind of systems as Complex Heterogeneous Systems CHeSs The work considers interacting systems that exchange energy mass information etc in various ways The elementary building blocks of CHeSs are based on fundamental thermodynamic chemical material physical and mathematical principles such as variational and graph theoretic concepts It investigates ways of defining complexity computing percolation thresholds making smart decisions also by learning from data past experiences e g providing a systematic approach towards battery management systems and identifying battery life e g by blow up analysis of highly nonlinear concentrated solutions Ultimately the elaborated tools shall allow the reader to obtain a general understanding for simulating also on quantum computers controlling and developing CHeSs as well as to pave the way for a general theory on CHeSs generalizing the view on complexity measurement estimation and control

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