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# SIX DEGREES



THE SCIENCE OF  
A CONNECTED AGE

WITH A NEW CHAPTER

DUNCAN J. WATTS

# Six Degrees The Science Of A Connected Age

**National Research Council, Division on  
Engineering and Physical  
Sciences, Board on Army Science and  
Technology, Committee on Network  
Science for Future Army Applications**

## **Six Degrees The Science Of A Connected Age:**

**Six Degrees: The Science of a Connected Age** Duncan J. Watts, 2004-02-17 The pioneering young scientist whose work on the structure of small worlds has triggered an avalanche of interest in networks In this remarkable book Duncan Watts one of the principal architects of network theory sets out to explain the innovative research that he and other scientists are spearheading to create a blueprint of our connected planet Whether they bind computers economies or terrorist organizations networks are everywhere in the real world yet only recently have scientists attempted to explain their mysterious workings From epidemics of disease to outbreaks of market madness from people searching for information to firms surviving crisis and change from the structure of personal relationships to the technological and social choices of entire societies Watts weaves together a network of discoveries across an array of disciplines to tell the story of an explosive new field of knowledge the people who are building it and his own peculiar path in forging this new science     **Sync** Steven Strogatz, 2004-04-29 SYNC IS A STORY OF A DAZZLING KIND OF ORDER IN THE UNIVERSE THE HARMONY THAT COMES FROM CYCLES IN SYNC THE TENDENCY TO SYNCHRONIZE IS ONE OF THE MOST FAR REACHING DRIVES IN ALL OF NATURE IT EXTENDS FROM PEOPLE TO PLANETS FROM ANIMALS TO ATOMS IN SYNC PROFESSOR STEVEN STROGATZ CONSIDERS A RANGE OF APPLICATIONS HUMAN SLEEP AND CIRCADIAN RHYTHMS MENSTRUAL SYNCHRONY INSECT OUTBREAKS SUPERCONDUCTORS LASERS SECRET CODES HEART ARRHYTHMIAS AND FADS CONNECTING ALL THROUGH AN EXPLORATION OF THE SAME MATHEMATICAL THEME SELF ORGANISATION OR THE SPONTANEOUS EMERGENCE OF ORDER OUT OF CHAOS FOCUSED ENOUGH TO PRESENT A COHERENT WORLD UNTO THEMSELVES STROGATZ S CHOSEN TOPICS TOUCH ON SEVERAL OF THE HOTTEST DIRECTIONS IN CONTEMPORARY SCIENCE     [A First Course in Network Science](#) Filippo Menczer, Santo Fortunato, Clayton A. Davis, 2020-01-30 Networks are everywhere networks of friends transportation networks and the Web Neurons in our brains and proteins within our bodies form networks that determine our intelligence and survival This modern accessible textbook introduces the basics of network science for a wide range of job sectors from management to marketing from biology to engineering and from neuroscience to the social sciences Students will develop important practical skills and learn to write code for using networks in their areas of interest even as they are just learning to program with Python Extensive sets of tutorials and homework problems provide plenty of hands on practice and longer programming tutorials online further enhance students programming skills This intuitive and direct approach makes the book ideal for a first course aimed at a wide audience without a strong background in mathematics or computing but with a desire to learn the fundamentals and applications of network science     *The Connected City* Zachary P. Neal, 2012-08-06 The Connected City explores how thinking about networks helps make sense of modern cities what they are how they work and where they are headed Cities and urban life can be examined as networks and these urban networks can be examined at many different levels The book focuses on three levels of urban networks

micro meso and macro These levels build upon one another and require distinctive analytical approaches that make it possible to consider different types of questions At one extreme micro urban networks focus on the networks that exist within cities like the social relationships among neighbors that generate a sense of community and belonging At the opposite extreme macro urban networks focus on networks between cities like the web of nonstop airline flights that make face to face business meetings possible This book contains three major sections organized by the level of analysis and scale of network Throughout these sections when a new methodological concept is introduced a separate method note provides a brief and accessible introduction to the practical issues of using networks in research What makes this book unique is that it synthesizes the insights and tools of the multiple scales of urban networks and integrates the theory and method of network analysis

**Success Strategies for Women in Science** Peggy A. Pritchard, 2011-04-28 Success Strategies for Women in Science A Portable Mentor focuses on a wealth of knowledge and years of experience of successful female scientists from industry government research institutes and academe This book through practical advice and real life stories presents what knowledge and skills are needed to make the transition from trainee to scientist that if practiced will help beginners become successful This book in particular describes the essential skills required of every researcher such as networking communicating coping with the demands of a research career time management and the most difficult of skills saying no to excessive demands on time This text also explores the issues relating to career development and the importance of the examination of alternate career paths While much of the advice in this mentoring manual is aimed at women new in their careers experienced readers will also find the book of value This material will fill the gap and help women to pursue excellence and achieve success in their chosen scientific careers Details skills complementing scientific training and expertise that are proven to enhance potential for success including networking and mental toughness Provides insights into balancing professional and personal responsibilities Written by outstanding female scientists representing diverse scientific backgrounds and interests Offers practical advice and real life stories that address current issues and concerns A professional resource with international perspective

**Leadership in Science and Technology: A Reference Handbook** William Sims Bainbridge, 2011-10-20 Tackling 100 key topics and providing case studies in the area of science and technology leadership this reference handbook is an essential resource for students in this area

**Complexity Science: An Introduction** Mark A Peletier, Rutger A Van Santen, Erik Steur, 2019-03-20 This book on complexity science comprises a collection of chapters on methods and principles from a wide variety of disciplinary fields from physics and chemistry to biology and the social sciences In this two part volume the first part is a collection of chapters introducing different aspects in a coherent fashion and providing a common basis and the founding principles of the different complexity science approaches the next provides deeper discussions of the different methods of use in complexity science with interesting illustrative applications The fundamental topics deal with self organization pattern formation forecasting uncertainties

synchronization and revolutionary change self adapting and self correcting systems and complex networks Examples are taken from biology chemistry engineering epidemiology robotics economics sociology and neurology

**Informing Science Volume One: Concepts and Systems** T. Grandon Gill, 2016 The two volume Informing Science series is the first attempt to survey and synthesize research in the informing science transdiscipline Part textbook part collection of readings the two volumes present both important research findings relating to the field and highlight fertile directions for future research Volume One Concepts and Systems focuses on the key building blocks of informing science It begins with an overview of the transdiscipline tracing its evolution from Cohen's original proposal to its present state Next it considers a series of concepts that frequently elude attempts at rigorous definition Among these theory research information knowledge and complexity With working definitions established it goes on to explore basic systems theory introducing the concept of an informing system The key elements of such systems the channel the sender informer and the receiver client are then examined individually The volume concludes with two overview chapters The first of these looks at the analysis of a basic informing system in which a single informer interacts directly with a clearly specified client or set of clients The last chapter extends these ideas to the more complex topologies e.g. multiple channels multiple informers multiple clients layers of informing that are more typical in real world informing contexts

Decision Making: A Psychophysics Application Of Network Science Paolo Grigolini, Bruce J West, 2011-07-19 This invaluable book captures the proceedings of a workshop that brought together a group of distinguished scientists from a variety of disciplines to discuss how networking influences decision making The individual lectures interconnect psychological testing the modeling of neuron networks and brain dynamics to the transport of information within and between complex networks Of particular importance was the introduction of a new principle that governs how complex networks talk to one another the Principle of Complexity Management PCM PCM establishes that the transfer of information from a stimulating complex network to a responding complex network is determined by how the complexity indices of the two networks are related The response runs the gamut from being independent of the perturbation to being completely dominated by it depending on the complexity mismatch

**Network Science** National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Network Science for Future Army Applications, 2006-01-15 The military is currently attempting to develop itself into a force capable of networkcentric operations While this effort has highlighted the military's dependence on interacting networks it has also shown that there is a huge gap between what we need to know about networks and our fundamental knowledge about network behavior This gap makes the military vision of NCO problematic To help address this problem the Army asked the NRC to find out whether identifying and funding a new field of network science could help close this gap This report presents an examination of networks and the military an analysis of the promise content and challenges of network science and an assessment of approaches to creating value from network science

**Sociology and Complexity Science** Brian

Castellani, Frederic William Hafferty, 2009-10-03 By now most academics have heard something about the new science of complexity In a manner reminiscent of Einstein and the last hundred years of physics complexity science has captured the public imagination One can go to Amazon com and purchase books on complexification Casti 1994 emergence Holland 1998 small worlds Barab si 2003 the web of life Capra 1996 fuzzy thinking Kosko 1993 global complexity Urry 2003 and the business of long tails Anderson 2006 Even television has incorporated the topics of complexity science Crime shows such as 24 or CSI typically feature investigators using the latest advances in computational modeling to simulate scenarios or data mine all possible suspects all of which is done before the crime takes place The World Wide Web is another example A simple search on Google Com using the phrase complexity science gets close to a million hits Complexity science is ubiquitous What most scholars do not realize however is the remarkable role sociologists are playing in this new science Consider the following examples

0 1 Sociologists in Complexity Science The first example comes from the new science of networks Barab si 2003 By now most readers are familiar with the phenomena known as six degrees of separation the idea that because most large networks are comprised of a significant number of non random weak ties the nodes e g people companies etc

**Handbook of Quantitative Science and Technology Research** Henk F. Moed, Wolfgang Glänzel, Ulrich Schmoch, 2006-02-23 This handbook offers a state of the art overview of quantitative science and technology research It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents It comprises 34 chapters written by leading specialists in the various sub domains These chapters deal with theoretical and methodological issues illustrate applications and highlight their policy context and relevance Authors present a survey of the research topics they address and show their most recent achievements The 34 chapters are arranged into 5 parts Disciplinary Approaches General Methodology The Science System The Technology System and The Science Technology Interface The Editor's Introduction provides a further specification of the handbook's scope and of the main topics addressed in its chapters This handbook aims at four distinct groups of readers practitioners in the field of science and technology studies research students in this field scientists scholars and technicians who are interested in a systematic thorough analysis of their activities policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results

**Rule the Web** Mark Frauenfelder, 2007-06-12 In Rule the Web you'll learn how to Browse recklessly free from viruses ads and spyware Turn your browser into a secure and powerful anywhere office Raze your old home page and build a modern Web masterpiece Get the news so fast it'll leave skidmarks on your inbox Fire your broker and let the Internet make you rich Claim your fifteen megabytes of fame with a blog or podcast You use the Web to shop do your banking have fun find facts connect with family share your thoughts with the world and more But aren't you curious about what else the Web can do for you Or if there are better faster or easier ways to do what you're already doing Let the world's foremost technology writer Mark Frauenfelder help you unlock the Internet's potential and open up a richer nimbler

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Cognitive Science Jay Friedenber, Gordon Silverman, Michael J. Spivey, 2021-09-16 Cognitive Science provides a comprehensive and up to date introduction to the study of the mind The authors examine the mind from the perspective of different fields including philosophy psychology neuroscience networks evolution emotional and social cognition linguistics artificial intelligence robotics and the new framework of embodied cognition Each chapter focuses on a particular disciplinary approach and explores methodologies theories and empirical findings Substantially updated with new and expanded content the Fourth Edition reflects the latest research in this rapidly evolving field

*Computational Science -- ICCS 2005* V.S. Sunderam, G. Dick van Albada, Peter M.A. Sloot, J. J. Dongarra, 2007-05-22 The Fifth International Conference on Computational Science ICCS 2005 held in Atlanta Georgia USA May 22 25 2005 continued in the tradition of previous conferences in the series ICCS 2004 in Krakow Poland ICCS 2003 held simultaneously at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco California USA Computational science is rapidly maturing as a mainstream discipline It is central to an ever expanding variety of fields in which computational methods and tools enable new discoveries with greater accuracy and speed ICCS 2005 was organized as a forum for scientists from the core disciplines of computational science and numerous application areas to discuss and exchange ideas results and future directions ICCS participants included researchers from many application domains including those interested in advanced computational methods for physics chemistry life sciences engineering economics and finance arts and humanities as well as computer system vendors and software developers The primary objectives of this conference were to discuss problems and solutions in all areas to identify new issues to shape future directions of research and to help users apply various advanced computational techniques The event highlighted recent developments in algorithms computational kernels next generation computing systems tools advanced numerical methods data driven systems and emerging application fields such as complex systems finance bioinformatics computational aspects of wireless and mobile networks graphics and hybrid computation

Network Science with Python and NetworkX Quick Start Guide Edward L. Platt, 2019-04-26 Manipulate and analyze network data with the power of Python and NetworkX Key Features Understand the terminology and basic concepts of network science Leverage the power of Python and NetworkX to represent data as a

networkApply common techniques for working with network data of varying sizesBook Description NetworkX is a leading free and open source package used for network science with the Python programming language NetworkX can track properties of individuals and relationships find communities analyze resilience detect key network locations and perform a wide range of important tasks With the recent release of version 2 NetworkX has been updated to be more powerful and easy to use If you re a data scientist engineer or computational social scientist this book will guide you in using the Python programming language to gain insights into real world networks Starting with the fundamentals you ll be introduced to the core concepts of network science along with examples that use real world data and Python code This book will introduce you to theoretical concepts such as scale free and small world networks centrality measures and agent based modeling You ll also be able to look for scale free networks in real data and visualize a network using circular directed and shell layouts By the end of this book you ll be able to choose appropriate network representations use NetworkX to build and characterize networks and uncover insights while working with real world systems What you will learnUse Python and NetworkX to analyze the properties of individuals and relationshipsEncode data in network nodes and edges using NetworkXManipulate store and summarize data in network nodes and edgesVisualize a network using circular directed and shell layoutsFind out how simulating behavior on networks can give insights into real world problemsUnderstand the ongoing impact of network science on society and its ethical considerationsWho this book is for If you are a programmer or data scientist who wants to manipulate and analyze network data in Python this book is perfect for you Although prior knowledge of network science is not necessary some Python programming experience will help you understand the concepts covered in the book easily

**Computer Science Illuminated with Navigate Advantage Access** Nell Dale,John Lewis,2023-11-07 Designed for the introductory computing and computer science course the student friendly Computer Science Illuminated Eighth Edition provides students with a solid foundation for further study and offers non majors a complete introduction to computing Fully revised and updated the eighth edition of this best selling text retains the accessibility and in depth coverage of previous editions while incorporating all new material on cutting edge issues in computer science Authored by the award winning team Nell Dale and John Lewis the text provides a unique and innovative layered approach moving through the levels of computing from an organized language neutral perspective [Network Models for Data Science](#) Alan Julian

Izenman,2023-01-05 This is the first book to describe modern methods for analyzing complex networks arising from a wide range of disciplines **Computer Science Illuminated** Nell Dale,John Lewis,2014-12-31 Each new print copy includes

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*Operations Research and Management Science Handbook* A. Ravi Ravindran, 2016-04-19. Operations Research (OR) began as an interdisciplinary activity to solve complex military problems during World War II. Utilizing principles from mathematics, engineering, business, computer science, economics, and statistics, OR has developed into a full-fledged academic discipline with practical application in business, industry, government, and more.

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web a 5 5 page activity titled the blue people of troublesome creek focuses on the blue fugates of kentucky this family suffered from a rare genetic disorder known as methemoglobinemia this is really fascinating and my students love hearing about this

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web deficiency of nadh diaphorase he went out into the hills and found other blue people including zach fugate and his aunt bessie fugate all living near a nearly dead mining town known as hardburly the doctor had noticed that the blue people were not particularly happy about being blue

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web in a nutshell the blue is caused by a hereditary condition called methemoglobinemia it is a rare and harmless genetic disorder in which the body does not make enough of the enzyme diaphorase or any those with methemoglobinemia still have

plenty of hemoglobin so they function normally

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