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Graph-structured data

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is ubiquitous  
throughout the natural  
and social sciences,  
from  
telecommunication  
networks to quantum  
chemistry. Building  
relational inductive  
biases into deep  
learning architectures  
is crucial for creating  
systems that can  
learn, reason, and  
generalize from this

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kind of data. Recent years have seen a surge in research on graph representation learning, including techniques for deep graph embeddings, generalizations of convolutional neural networks to graph-structured data, and neural message-passing approaches inspired by belief

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propagation. These  
advances in graph  
representation  
learning have led to  
new state-of-the-art  
results in numerous  
domains, including  
chemical synthesis,  
3D vision,  
recommender  
systems, question  
answering, and social  
network analysis. This  
book provides a

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synthesis and  
overview of graph  
representation  
learning. It begins  
with a discussion of  
the goals of graph  
representation  
learning as well as  
key methodological  
foundations in graph  
theory and network  
analysis. Following  
this, the book  
introduces and

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reviews methods for  
learning node  
embeddings,  
including random-  
walk-based methods  
and applications to  
knowledge graphs. It  
then provides a  
technical synthesis  
and introduction to the  
highly successful  
graph neural network  
(GNN) formalism,  
which has become a

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dominant and fast-  
growing paradigm for  
deep learning with  
graph data. The book  
concludes with a  
synthesis of recent  
advancements in  
deep generative  
models for graphs—a  
nascent but quickly  
growing subset of  
graph representation  
learning.

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Citation analysis—the  
exploration of  
reference patterns in  
the scholarly and  
scientific  
literature—has long  
been applied in a  
number of social  
sciences to study  
research impact,  
knowledge flows, and  
knowledge networks.  
It has important  
information science

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Applications as well,  
particularly in  
knowledge  
representation and in  
information retrieval.  
Recent years have  
seen a burgeoning  
interest in citation  
analysis to help  
address research,  
management, or  
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issues such as  
university rankings,

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or knowledge domain  
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visualization. This  
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renewed and growing  
interest stems from  
Science  
significant  
improvements in the  
Theoretical  
availability and  
accessibility of digital  
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(both citation and full  
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text) and of relevant  
computer  
technologies. The

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former provides large  
amounts of data and  
the latter the  
necessary tools for  
researchers to  
conduct new types of  
large-scale citation  
analysis, even without  
special access to  
special data  
collections. Exciting  
new developments  
are emerging this way  
in many aspects of

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citation analysis. This book critically examines both theory and practical techniques of citation network analysis and visualization, one of the two main types of citation analysis (the other being evaluative citation analysis). To set the context for its main theme, the book begins with a

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discussion of the foundations of citation analysis in general, including an overview of what can and what cannot be done with citation analysis (Chapter 1). An in-depth examination of the generally accepted steps and procedures for citation network analysis follows, including the

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Concepts and  
techniques that are  
associated with each  
step (Chapter 2).  
Individual issues that  
are particularly  
important in citation  
network analysis are  
then scrutinized,  
namely: field  
delineation and data  
sources for citation  
analysis (Chapter 3);  
disambiguation of

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names and  
references (Chapter  
4); and visualization  
of citation networks  
(Chapter 5). Sufficient  
technical detail is  
provided in each  
chapter so the book  
can serve as a  
practical how-to guide  
to conducting citation  
network analysis and  
visualization studies.  
While the discussion

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of most of the topics in this book applies to all types of citation analysis, the structure of the text and the details of procedures, examples, and tools covered here are geared to citation network analysis rather than evaluative citation analysis. This conscious choice was based on the authors'

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observation that,  
compared to  
evaluative citation  
analysis, citation  
network analysis has  
not been covered  
nearly as well by  
dedicated books,  
despite the fact that it  
has not been subject  
to nearly as much  
severe criticism and  
has been substantially  
enriched in recent

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years with new theory  
and techniques from  
research areas such  
as network science,  
social network  
analysis, or  
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visualization.

This book provides an  
introduction to the  
mathematical and  
algorithmic  
foundations of data

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science, including  
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high-dimensional  
geometry, and  
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include the  
counterintuitive nature  
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dimensions, important  
linear algebraic  
techniques such as  
singular value  
decomposition, the

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theory of random  
walks and Markov  
chains, the  
fundamentals of and  
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for large networks,  
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learning including  
topic modelling and  
non-negative matrix

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factorization, wavelets  
and compressed  
sensing. Important  
probabilistic  
techniques are  
developed including  
the law of large  
numbers, tail  
inequalities, analysis  
of random projections,  
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guarantees in  
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moment methods for

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Analysis of phase  
transitions in large  
random graphs.  
Additionally, important  
structural and  
complexity measures  
are discussed such as  
matrix norms and VC-  
dimension. This book  
is suitable for both  
undergraduate and  
graduate courses in  
the design and  
analysis of algorithms

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select proceedings of  
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networks, internet of  
intelligent things,  
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technologies. This  
book will be useful for  
researchers,  
professionals, and  
engineers working in  
the core areas of  
electronics and  
communication.

This book aims to

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explain the basics of graph theory that are needed at an introductory level for students in computer or information sciences. To motivate students and to show that even these basic notions can be extremely useful, the book also aims to provide an introduction to the

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Modern field of  
network science.  
Mathematics is often  
unnecessarily difficult  
for students, at times  
even intimidating. For  
this reason, explicit  
attention is paid in the  
first chapters to  
mathematical  
notations and proof  
techniques,  
emphasizing that the  
notations form the

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biggest obstacle, not the mathematical concepts themselves. This approach allows to gradually prepare students for using tools that are necessary to put graph theory to work: complex networks. In the second part of the book the student learns about random networks, small

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worlds, the structure  
of the Internet and the  
Web, peer-to-peer  
systems, and social  
networks. Again,  
everything is  
discussed at an  
elementary level, but  
such that in the end  
students indeed have  
the feeling that they:  
1. Have learned how  
to read and  
understand the basic

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Mathematical related  
to graph theory.  
2. Understand how  
basic graph theory  
can be applied to  
optimization problems  
such as routing in  
communication  
networks. 3. Know a  
bit more about this  
sometimes mystical  
field of small worlds  
and random networks.  
There is an

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accompanying web  
site [www.distributed-systems.net/gtcn](http://www.distributed-systems.net/gtcn) from  
where supplementary  
material can be  
obtained, including  
exercises,  
Mathematica  
notebooks, data for  
analyzing graphs, and  
generators for various  
complex networks.

Are all film stars

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linked to Kevin  
Bacon? Why do the  
stock markets rise  
and fall sharply on the  
strength of a vague  
rumour? How does  
gossip spread so  
quickly? Are we all  
related through six  
degrees of  
separation? There is  
a growing awareness  
of the complex  
networks that pervade

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Modern society. We  
see them in the rapid  
growth of the Internet,  
the ease of global  
communication, the  
swift spread of news  
and information, and  
in the way epidemics  
and financial crises  
develop with startling  
speed and intensity.  
This introductory book  
on the new science of  
networks takes an

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interdisciplinary  
approach, using  
economics, sociology,  
computing,  
information science  
and applied  
mathematics to  
address fundamental  
questions about the  
links that connect us,  
and the ways that our  
decisions can have  
consequences for  
others.

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The fundamental  
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needed to understand  
machine learning  
include linear algebra,  
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analytic geometry,  
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decompositions,  
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vector calculus,  
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optimization,  
probability and  
statistics. These  
topics are traditionally

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taught in disparate  
courses, making it  
hard for data science  
or computer science  
students, or  
professionals, to  
efficiently learn the  
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textbook bridges the  
gap between  
mathematical and  
machine learning  
texts, introducing the

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Mathematical  
concepts with a  
minimum of  
prerequisites. It uses  
these concepts to  
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methods: linear  
regression, principal  
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Gaussian mixture  
models and support  
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with a mathematical  
background, these  
derivations provide a  
starting point to  
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concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Ideas about social structure and social networks are very old. People have always believed that

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biological and social  
links among  
Foundations  
individuals are  
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important. But it  
wasn't until the early  
1930s that systematic  
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research that  
Theoretical  
explored the  
Computer  
patterning of social  
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ties linking individuals  
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emerged. And it  
emerged, not once,  
but several times in  
several different

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social science fields  
and in several places.  
This book reviews  
these developments  
and explores the  
social processes that  
wove all these  
"schools" of network  
analysis together into  
a single coherent  
approach.  
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This book includes  
original unpublished

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presented at the  
International  
Conference on Data  
Analytics and  
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2020), held at Jan  
Wyzykowski  
University, Poland,  
during June 2020.  
The book covers the  
topics in data  
analytics, data  
management, big

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data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

Scores of talented

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and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and

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scientific, are needed  
in a number of  
forensic science  
disciplines to ensure  
the reliability of work,  
establish enforceable  
standards, and  
promote best  
practices with  
consistent application.  
Strengthening  
Forensic Science in  
the United States: A  
Path Forward

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provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the

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forensic science  
disciplines are clear:  
assisting law  
enforcement officials,  
enhancing homeland  
security, and reducing  
the risk of wrongful  
conviction and  
exoneration.  
Strengthening  
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the United States  
gives a full account of  
what is needed to

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advance the forensic  
science disciplines,  
including upgrading of  
systems and  
organizational  
structures, better  
training, widespread  
adoption of uniform  
and enforceable best  
practices, and  
mandatory  
certification and  
accreditation  
programs. While this

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book provides an  
essential call-to-action  
for congress and  
policy makers, it also  
serves as a vital tool  
for law enforcement  
agencies, criminal  
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