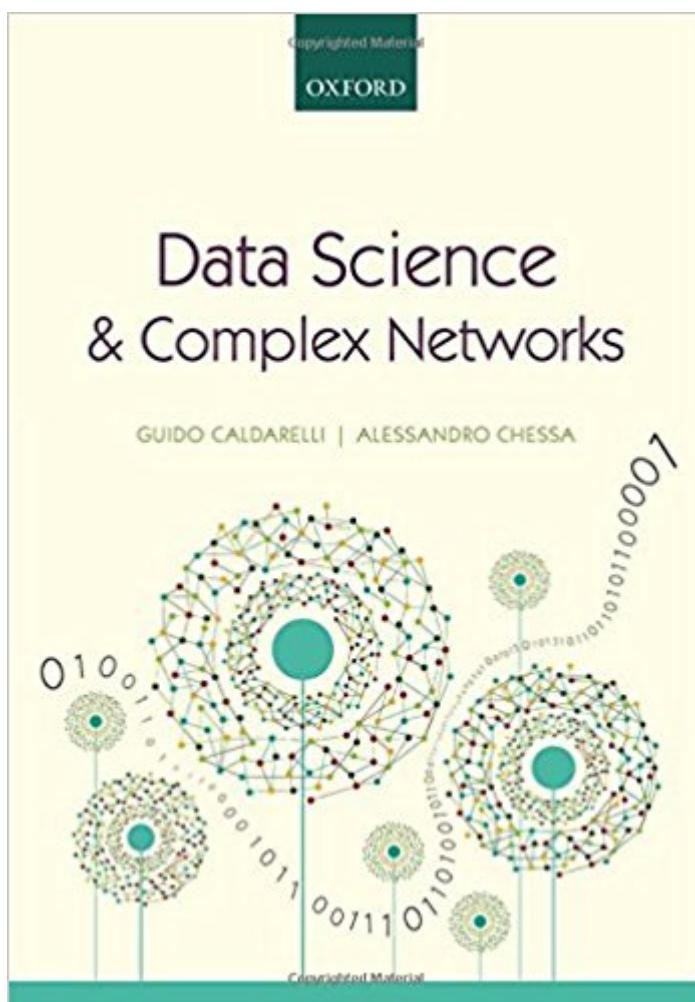


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Data Science And Complex Networks: Real Case Studies With Python



Synopsis

This book provides a comprehensive yet short description of the basic concepts of Complex Network theory. In contrast to other books the authors present these concepts through real case studies. The application topics span from Foodwebs, to the Internet, the World Wide Web and the Social Networks, passing through the International Trade Web and Financial time series. The final part is devoted to definition and implementation of the most important network models. The text provides information on the structure of the data and on the quality of available datasets. Furthermore it provides a series of codes to allow immediate implementation of what is theoretically described in the book. Readers already used to the concepts introduced in this book can learn the art of coding in Python by using the online material. To this purpose the authors have set up a dedicated web site where readers can download and test the codes. The whole project is aimed as a learning tool for scientists and practitioners, enabling them to begin working instantly in the field of Complex Networks.

Book Information

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Customer Reviews

"The authors nicely integrate ideas from data science and complex networks to create a toolkit for tackling big data challenges. An essential read in the information age." --Geoff F. Rodgers, Brunel University London, UK "Data science and network science are two of the most dynamically developing areas in modern science. It is fantastic to see these two topics, whose synergy is evident to the practitioner, under one roof, presented with clarity and through numerous practical examples by Caldarelli and Chessa." --Albert-László Barabási, Northeastern University, USA

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This book goes over six Python projects related to acquiring and processing large scale data. Of the 121 pages, if you take out the pages used to present snippets of Python code, there is probably about 30 to 40 pages of text left which contain brief theoretical expositions relevant to the project. The projects presented are interesting; but not unique in any way nor hard to find in other places. If you got this book expecting to find some original results in complex networks, given the authors' background, you will be disappointed. The best features of the book are the accuracy of the technical material presented and the extensive references. Unfortunately those do not justify the high price!

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