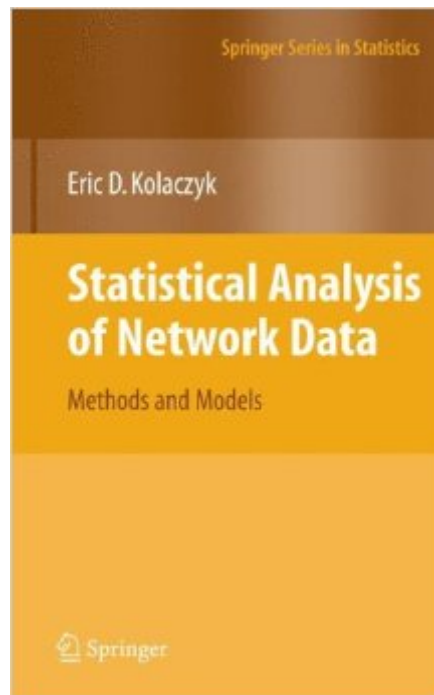


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Statistical Analysis Of Network Data: Methods And Models (Springer Series In Statistics)



Synopsis

In recent years there has been an explosion of network data – that is, measurements that are either of or from a system conceptualized as a network – from seemingly all corners of science. The combination of an increasingly pervasive interest in scientific analysis at a systems level and the ever-growing capabilities for high-throughput data collection in various fields has fueled this trend. Researchers from biology and bioinformatics to physics, from computer science to the information sciences, and from economics to sociology are more and more engaged in the collection and statistical analysis of data from a network-centric perspective. Accordingly, the contributions to statistical methods and modeling in this area have come from a similarly broad spectrum of areas, often independently of each other. Many books already have been written addressing network data and network problems in specific individual disciplines. However, there is at present no single book that provides a modern treatment of a core body of knowledge for statistical analysis of network data that cuts across the various disciplines and is organized rather according to a statistical taxonomy of tasks and techniques. This book seeks to fill that gap and, as such, it aims to contribute to a growing trend in recent years to facilitate the exchange of knowledge across the pre-existing boundaries between those disciplines that play a role in what is coming to be called network science.

Book Information

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Customer Reviews

This is just a warning to avoid the soft cover edition: it is a simple BLACK&WHITE photocopy of the original, so the text refers to colors in diagrams, but they are not visible. Given the price of the softcover this is unacceptable.

I wish all stat books (or even network books) were as beautiful as this one - beautiful in the sense of the pretty graphs and networks and also the content (theory, discussion, examples) and even the paper quality. There are many excellent network books out there on how to construct a network and measure nodes, but there aren't many books that have a focus on the statistical aspects of network analysis - namely, data collection, sampling, modeling, estimation, inference, etc., which are just as important as constructing a network. So this book is not only beautiful, readable, but also very unique and extremely valuable. Excellent work!

I was looking for a more formal and thorough review of statistical network analysis, and this was the best book I found on the subject. Most other books are really introductions to the study of complex networks, this is the first one I found which goes deeper into the advanced statistical analysis of network data. I recommend it.

This book provides a comprehensive survey of statistical issues related to network data. Very good entry-level book for statisticians who know nothing about network and graph theory. As the topic itself is too wide, ranging from graph theory, statistics, to social network, this book is written in a condensed way. Nevertheless, the examples are easy to understand and well motivated, with excellent graphical illustrations. However, in terms of mathematical results, it only states the results without the proof (doing so may result in a very long book), and readers have to refer to other books.

Very useful for teaching. It gives a wide and deep scale of statistical methods and very relevant instances or applications.

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