



Gaussian Markov Random Fields: Theory and Applications (Chapman & Hall/CRC Monographs on Statistics & Applied Probability)

By Håvard Rue, Leonhard Held

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Gaussian Markov Random Field (GMRF) models are most widely used in spatial statistics - a very active area of research in which few up-to-date reference works are available. This is the first book on the subject that provides a unified framework of GMRFs with particular emphasis on the computational aspects.

This book includes extensive case-studies and, online, a c-library for fast and exact simulation. With chapters contributed by leading researchers in the field, this volume is essential reading for statisticians working in spatial theory and its applications, as well as quantitative researchers in a wide range of science fields where spatial data analysis is important.

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Gaussian Markov Random Fields: Theory and Applications (Chapman & Hall/CRC Monographs on Statistics & Applied Probability) By Havard Rue, Leonhard Held Bibliography

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Editorial Review

Review

Rue and Held have constructed an impressive reference devoted to the theory and applications of Gaussian Markov random fields (GMRFs), with emphasis on recent computational development, in an accessible format. ...After a sequence of contributions by the authors and their colleagues covering a wide range of applications, a reference on the basic theory of GMRFs and state-of-the-art of the computational development and applications was needed. Gaussian Markov Random Fields: Theory and Applications is exactly such a book. I can recommend this book as a very good graduate level textbook. I also believe that readers will learn much from the GMRFLib software.

-Journal of the American Statistical Association

The authors succeed in their attempt 'to provide the first comprehensive account of the main properties of GMRFs, to emphasize the strong connection between GMRFs and numerical methods for sparse matrices, and to outline various applications of GMRFs to statistical inference.' ...We believe that this book will be useful for numerous students and researchers in statistics and applied probability.

-Mathematical Reviews

Its strengths are, among others, the quality of the exposition, the attention to numerical problems and their resolution, and the wealth of illustrations. ...I would recommend it to anyone involved in spatial modeling as a time-effective introduction to the field, including a concern for practical implementation that may be lacking elsewhere and a good stylistic balance between background and technicalities, between bases and illustrations that makes it a rather easy reading.

Christian P. Robert, Statistics in Medicine

Users Review

From reader reviews:

Emily Walker:

Information is provisions for anyone to get better life, information currently can get by anyone from everywhere. The information can be a information or any news even a huge concern. What people must be consider if those information which is inside former life are difficult to be find than now's taking seriously which one is acceptable to believe or which one the resource are convinced. If you get the unstable resource then you have it as your main information you will have huge disadvantage for you. All of those possibilities will not happen within you if you take Gaussian Markov Random Fields: Theory and Applications (Chapman & Hall/CRC Monographs on Statistics & Applied Probability) as your daily resource information.

Daniel Reynolds:

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