Spatial Cluster Modelling (Monographs on Statistics and Applied Probability)

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Research has generated a number of advances in methods for spatial cluster modelling in recent years, particularly in the area of Bayesian cluster modelling. Along with these advances has come an explosion of interest in the potential applications of this work, especially in epidemiology and genome research.

In one integrated volume, this book reviews the state-of-the-art in spatial clustering and spatial cluster modelling, bringing together research and applications previously scattered throughout the literature. It begins with an overview of the field, then presents a series of chapters that illuminate the nature and purpose of cluster modelling within different application areas, including astrophysics, epidemiology, ecology, and imaging. The focus then shifts to methods, with discussions on point and object process modelling, perfect sampling of cluster processes, partitioning in space and space-time, spatial and spatio-temporal process modelling, nonparametric methods for clustering, and spatio-temporal cluster modelling.

Many figures, some in full color, complement the text, and a single section of references cited makes it easy to locate source material. Leading specialists in the field of cluster modelling authored each chapter, and an introduction by the editors to each chapter provides a cohesion not typically found in contributed works. Spatial Cluster Modelling thus offers a singular opportunity to explore this exciting new field, understand its techniques, and apply them in your own research.

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Review
"[This book] is a collection of contributions by leading specialist in the field, which are brought together coherently with unified notation. Overall, the book is an excellent, well and up-to-date referenced presentation of the current state of research in spatial cluster analysis an insightful reference not only for the statistician, but also for scientists ." - Zentralblatt MATH, 1046 "The chapter authors are all recognized for their excellence in research. [T]he text is well written and informative, and is a worthy addition to the library of anyone wishing to keep up to date on current research in spatial cluster modeling." - Journal of the American Statistical Association, Sept. 2004, Vol. 99, No. 467

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