

Introduction To Graphical Modelling

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graphic modelling is a form of multivariate analysis that uses graphs to represent models these graphs display the structure of dependencies both associational and causal between the variables in the model this textbook provides an introduction to graphical modelling with emphasis on applications and practicalities rather than on a formal development it is based on the popular software package for graphical modelling `mim` a freeware version of which can be downloaded from the internet following an introductory chapter which sets the scene and describes some of the basic ideas of graphical modelling subsequent chapters describe particular families of models including log linear models gaussian models and models for mixed discrete and continuous variables further chapters cover hypothesis testing and model selection chapters 7 and 8 are new to the second edition chapter 7 describes the use of directed graphs chain graphs and other graphs chapter 8 summarizes some recent work on causal inference relevant when graphical models are given a causal interpretation this book will provide a useful introduction to this topic for students and researchers

graphical models in their modern form have been around since the late 1970s and appear today in many areas of the sciences along with the ongoing developments of graphical models a number of different graphical modeling software programs have been written over the years in recent years many of these software developments have taken place within the `r` community either in the form of new packages or by providing an `r` interface to existing software this book attempts to give the reader a gentle introduction to graphical modeling using `r` and the main features of some of these packages in addition the book provides examples of how more advanced aspects of graphical modeling can be represented and handled within `r` topics covered in the seven chapters include graphical models for contingency tables gaussian and mixed graphical models bayesian networks and modeling high dimensional data

a graphical model is a statistical model that is represented by a graph the factorization properties underlying graphical models facilitate tractable computation with multivariate distributions making the models a valuable tool with a plethora of applications furthermore directed graphical models allow intuitive causal interpretations and have become a cornerstone for causal inference while there exist a number of excellent books on graphical models the field has grown so much that individual authors can hardly cover its entire scope moreover the field is interdisciplinary by nature through chapters by leading researchers from different areas this handbook

provides a broad and accessible overview of the state of the art key features contributions by leading researchers from a range of disciplines structured in five parts covering foundations computational aspects statistical inference causal inference and applications balanced coverage of concepts theory methods examples and applications chapters can be read mostly independently while cross references highlight connections the handbook is targeted at a wide audience including graduate students applied researchers and experts in graphical models

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