

# Bayesian Networks and Decision Graphs

*Second Edition*

*Finn V. Jensen*  
*Thomas D. Nielsen*

*Information  
Science  
& Statistics*

# Bayesian Networks And Decision Graphs

**Uffe B. Kjærulff, Anders L. Madsen**



## **Bayesian Networks And Decision Graphs:**

**Bayesian Networks and Decision Graphs** Thomas Dyhre Nielsen, FINN VERNER JENSEN, 2009-03-17 Probabilistic graphical models and decision graphs are powerful modeling tools for reasoning and decision making under uncertainty As modeling languages they allow a natural specification of problem domains with inherent uncertainty and from a computational perspective they support efficient algorithms for automatic construction and query answering This includes belief updating finding the most probable explanation for the observed evidence detecting conflicts in the evidence entered into the network determining optimal strategies analyzing for relevance and performing sensitivity analysis The book introduces probabilistic graphical models and decision graphs including Bayesian networks and influence diagrams The reader is introduced to the two types of frameworks through examples and exercises which also instruct the reader on how to build these models The book is a new edition of Bayesian Networks and Decision Graphs by Finn V Jensen The new edition is structured into two parts The first part focuses on probabilistic graphical models Compared with the previous book the new edition also includes a thorough description of recent extensions to the Bayesian network modeling language advances in exact and approximate belief updating algorithms and methods for learning both the structure and the parameters of a Bayesian network The second part deals with decision graphs and in addition to the frameworks described in the previous edition it also introduces Markov decision processes and partially ordered decision problems The authors also provide a well founded practical introduction to Bayesian networks object oriented Bayesian networks decision trees influence diagrams and variants hereof and Markov decision processes give practical advice on the construction of Bayesian networks decision trees and influence diagrams from domain knowledge give several examples and exercises exploiting computer systems for dealing with Bayesian networks and decision graphs present a thorough introduction to state of the art solution and analysis algorithms The book is intended as a textbook but it can also be used for self study and as a reference book [Bayesian Networks and Decision Graphs](#) ,2001 Bayesian networks and decision graphs are formal graphical languages for representation and communication of decision scenarios requiring reasoning under uncertainty Their strengths are two sided It is easy for humans to construct and to understand them and when communicated to a computer they can easily be compiled Furthermore handy algorithms are developed for analyses of the models and for providing responses to a wide range of requests such as belief updating determining optimal strategies conflict analyses of evidence and most probable explanation The book emphasizes both the human and the computer sides Part I gives a thorough introduction to Bayesian networks as well as decision trees and influence diagrams and through examples and exercises the reader is instructed in building graphical models from domain knowledge This part is self contained and it does not require other background than standard secondary school mathematics Part II is devoted to the presentation of algorithms and complexity issues This part is also self contained but it requires that the reader is familiar with working with texts in the mathematical language The

author also provides a well founded practical introduction to Bayesian networks decision trees and influence diagrams gives several examples and exercises exploiting the computer systems for Bayesian networks and influence diagrams gives practical advice on constructing Bayesian networks and influence diagrams from domain knowledge embeds decision making into the framework of Bayesian networks presents in detail the currently most efficient algorithms for probability updating in Bayesian networks discusses a wide range of analysis tools and model requests together with algorithms for calculation of responses gives a detailed presentation of the currently most efficient algorithm for solving influence diagrams

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Advances in Bayesian Networks José A. Gámez, Serafin Moral, Antonio Salmerón Cerdan, 2013-06-29 In recent years probabilistic graphical models especially Bayesian networks and decision graphs have experienced significant theoretical development within areas such as artificial intelligence and statistics This carefully edited monograph is a compendium of the most recent advances in the area of probabilistic graphical models such as decision graphs learning from data and inference It presents a survey of the state of the art of specific topics of recent interest of Bayesian Networks including approximate propagation abductive inferences decision graphs and applications of influence In addition *Advances in Bayesian Networks* presents a careful selection of applications of probabilistic graphical models to various fields such as speech recognition meteorology or information retrieval

*Bayesian Networks and Influence Diagrams: A Guide to Construction and Analysis* Uffe B. Kjærulff, Anders L. Madsen, 2007-12-20 Probabilistic networks also known as Bayesian networks and influence diagrams have become one of the most promising technologies in the area of applied artificial intelligence This book provides a comprehensive guide for practitioners who wish to understand construct and analyze intelligent systems for decision support based on probabilistic networks Intended primarily for practitioners this book does not require sophisticated mathematical skills The theory and methods presented are illustrated through more than 140 examples and exercises are included for the reader to check his her level of understanding Proceedings of the Genetic and Evolutionary Computation Conference, 2001

**Innovative Numerical Modelling in Geomechanics** Luis Ribeiro e Sousa, Eurípedes Vargas Jr., M.M. Fernandes, Roberto Azevedo, 2012-05-03 Since the 1990s five books on Applications of Computational Mechanics in Geotechnical Engineering have been published Innovative Numerical Modelling in Geomechanics is the 6th and final book in this series and contains papers written by leading experts on computational

mechanics The book treats highly relevant topics in the field of geotechnics such as environmental geotechnics open and underground excavations foundations embankments and rockfill dams computational systems and oil geomechanics Special attention is paid to risk in geotechnical engineering and to recent developments in applying Bayesian networks and Data Mining techniques Innovative Numerical Modelling in Geomechanics will be of interest to civil mining and environmental engineers as well as to engineering geologists The book will also be useful for academics and researchers involved in geotechnics

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**Journal of the American Statistical Association**, 2009 CO2 Storage in Carboniferous Formations and Abandoned Coal Mines Manchao He, Luis Ribeiro e Sousa, Derek Elsworth, Euripedes Vargas Jr., 2011-09-16 Underground geological storage of carbon dioxide CO2 has considerable potential for mitigating climate change CO2 can be safely injected and stored at well characterized and properly managed sites Injecting carbon dioxide in deep geological formations can store it underground for long periods of time Depleted oil and gas reservoirs saline aquifers and carboniferous formations can be used for storage of CO2 as well as in abandoned coal mines At depths below about 800 1000m CO2 has a liquid like density that permits the efficient use of underground reservoirs in porous sedimentary rocks The papers in the present volume are from leading experts in the field of CO2 storage and were presented at an International Workshop on CO2 Storage in Carboniferous Formations and Abandoned Coal Mines Beijing China 8 9 January 2011 CO2 storage in abandoned coal mines appears to have a bright future Although CO2 Storage in Carboniferous Formations and Abandoned Coal Mines is primarily intended for mining engineers environmental engineers and engineering geologists the book will also be useful to civil engineers and academics and professionals in geophysics and geochemistry

GECCO-2001 Lee Spector, 2001 *A Bayesian Network Model of Knowledge-based Authentication* Ye Chen, 2007

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