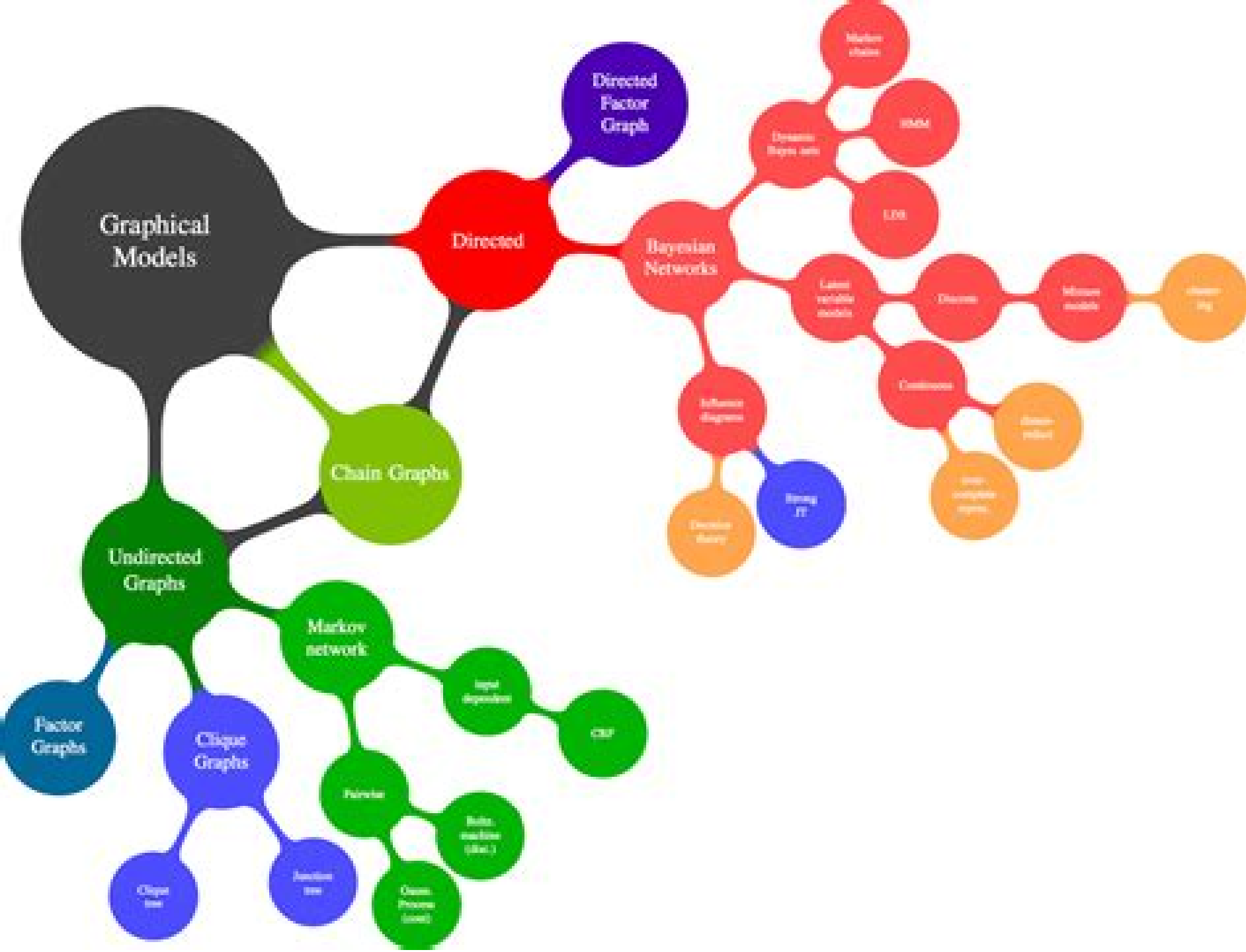




Graphical Models Graphical Models

Yijin Wang



Graphical Models Graphical Models:

Probabilistic Graphical Models Luis Enrique Sucar, 2020-12-23 This fully updated new edition of a uniquely accessible textbook reference provides a general introduction to probabilistic graphical models PGMs from an engineering perspective. It features new material on partially observable Markov decision processes, causal graphical models, causal discovery, and deep learning, as well as an even greater number of exercises. It also incorporates a software library for several graphical models in Python. The book covers the fundamentals for each of the main classes of PGMs, including representation, inference, and learning principles, and reviews real-world applications for each type of model. These applications are drawn from a broad range of disciplines, highlighting the many uses of Bayesian classifiers, hidden Markov models, Bayesian networks, dynamic and temporal Bayesian networks, Markov random fields, influence diagrams, and Markov decision processes. Topics and features: Presents a unified framework encompassing all of the main classes of PGMs. Explores the fundamental aspects of representation, inference, and learning for each technique. Examines new material on partially observable Markov decision processes and graphical models. Includes a new chapter introducing deep neural networks and their relation with probabilistic graphical models. Covers multidimensional Bayesian classifiers, relational graphical models, and causal models. Provides substantial chapter-ending exercises, suggestions for further reading, and ideas for research or programming projects. Describes classifiers such as Gaussian Naive Bayes, Circular Chain Classifiers, and Hierarchical Classifiers with Bayesian Networks. Outlines the practical application of the different techniques. Suggests possible course outlines for instructors. This classroom-tested work is suitable as a textbook for an advanced undergraduate or a graduate course in probabilistic graphical models for students of computer science, engineering, and physics. Professionals wishing to apply probabilistic graphical models in their own field or interested in the basis of these techniques will also find the book to be an invaluable reference. Dr. Luis Enrique Sucar is a Senior Research Scientist at the National Institute for Astrophysics Optics and Electronics INAOE, Puebla, Mexico. He received the National Science Prize in 2016.

Probabilistic Graphical Models Daphne Koller, Nir Friedman, 2009-07-31 A general framework for constructing and using probabilistic models of complex systems that would enable a computer to use available information for making decisions. Most tasks require a person or an automated system to reason to reach conclusions based on available information. The framework of probabilistic graphical models presented in this book provides a general approach for this task. The approach is model-based, allowing interpretable models to be constructed and then manipulated by reasoning algorithms. These models can also be learned automatically from data, allowing the approach to be used in cases where manually constructing a model is difficult or even impossible. Because uncertainty is an inescapable aspect of most real-world applications, the book focuses on probabilistic models which make the uncertainty explicit and provide models that are more faithful to reality. Probabilistic Graphical Models discusses a variety of models spanning Bayesian networks, undirected Markov networks, discrete and continuous models, and extensions.

to deal with dynamical systems and relational data For each class of models the text describes the three fundamental cornerstones representation inference and learning presenting both basic concepts and advanced techniques Finally the book considers the use of the proposed framework for causal reasoning and decision making under uncertainty The main text in each chapter provides the detailed technical development of the key ideas Most chapters also include boxes with additional material skill boxes which describe techniques case study boxes which discuss empirical cases related to the approach described in the text including applications in computer vision robotics natural language understanding and computational biology and concept boxes which present significant concepts drawn from the material in the chapter Instructors and readers can group chapters in various combinations from core topics to more technically advanced material to suit their particular needs

Handbook of Graphical Models Marloes Maathuis, Mathias Drton, Steffen Lauritzen, Martin Wainwright, 2018-11-12 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

Probabilistic Graphical Models Linda C. van der Gaag, Ad J. Feelders, 2014-09-11 This book constitutes the refereed proceedings of the 7th International Workshop on Probabilistic Graphical Models PGM 2014 held in Utrecht The Netherlands in September 2014 The 38 revised full papers presented in this book were carefully reviewed and selected from 44 submissions The papers cover all aspects of graphical models for probabilistic reasoning decision making and learning

Graphical Models Christian Borgelt, Matthias Steinbrecher, Rudolf R Kruse, 2009-07-30 Graphical models are of increasing importance in applied statistics and in particular in data mining Providing a self contained introduction and overview to learning relational probabilistic and possibilistic networks from data this second edition of Graphical Models is thoroughly updated to include the latest research in this burgeoning field including a new chapter on visualization The text provides graduate students and researchers with all the necessary background material including modelling under uncertainty decomposition of distributions graphical representation of distributions and applications relating to graphical models and problems for further research

Probabilistic Graphical Models for Computer Vision.

Qiang Ji, 2019-12-12 Probabilistic Graphical Models for Computer Vision introduces probabilistic graphical models PGMs for computer vision problems and teaches how to develop the PGM model from training data This book discusses PGMs and their significance in the context of solving computer vision problems giving the basic concepts definitions and properties It also provides a comprehensive introduction to well established theories for different types of PGMs including both directed and undirected PGMs such as Bayesian Networks Markov Networks and their variants Discusses PGM theories and techniques with computer vision examples Focuses on well established PGM theories that are accompanied by corresponding pseudocode for computer vision Includes an extensive list of references online resources and a list of publicly available and commercial software Covers computer vision tasks including feature extraction and image segmentation object and facial recognition human activity recognition object tracking and 3D reconstruction **Graphical Models** Steffen L.

Lauritzen, 1996-05-02 The idea of modelling systems using graph theory has its origin in several scientific areas in statistical physics the study of large particle systems in genetics studying inheritable properties of natural species and in interactions in contingency tables The use of graphical models in statistics has increased considerably over recent years and the theory has been greatly developed and extended This book provides the first comprehensive and authoritative account of the theory of graphical models and is written by a leading expert in the field It contains the fundamental graph theory required and a thorough study of Markov properties associated with various type of graphs The statistical theory of log linear and graphical models for contingency tables covariance selection models and graphical models with mixed discrete continuous variables in developed detail Special topics such as the application of graphical models to probabilistic expert systems are described briefly and appendices give details of the multivariate normal distribution and of the theory of regular exponential families The author has recently been awarded the RSS Guy Medal in Silver 1996 for his innovative contributions to statistical theory and practice and especially for his work on graphical models **Learning in Graphical Models** M.I. Jordan, 2012-12-06

In the past decade a number of different research communities within the computational sciences have studied learning in networks starting from a number of different points of view There has been substantial progress in these different communities and surprising convergence has developed between the formalisms The awareness of this convergence and the growing interest of researchers in understanding the essential unity of the subject underlies the current volume Two research communities which have used graphical or network formalisms to particular advantage are the belief network community and the neural network community Belief networks arose within computer science and statistics and were developed with an emphasis on prior knowledge and exact probabilistic calculations Neural networks arose within electrical engineering physics and neuroscience and have emphasised pattern recognition and systems modelling problems This volume draws together researchers from these two communities and presents both kinds of networks as instances of a general unified graphical formalism The book focuses on probabilistic methods for learning and inference in graphical

models algorithm analysis and design theory and applications Exact methods sampling methods and variational methods are discussed in detail Audience A wide cross section of computationally oriented researchers including computer scientists statisticians electrical engineers physicists and neuroscientists *Graphical Models with R* Søren Højsgaard, David Edwards, Steffen Lauritzen, 2012-02-22 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

Advances in Probabilistic Graphical Models Peter Lucas, José A. Gámez, Antonio Salmerón Cerdan, 2009-09-02 This book brings together important topics of current research in probabilistic graphical modeling learning from data and probabilistic inference Coverage includes such topics as the characterization of conditional independence the learning of graphical models with latent variables and extensions to the influence diagram formalism as well as important application fields such as the control of vehicles bioinformatics and medicine **Handbook of Graphical Models** Marloes

Maathuis, Mathias Drton, Steffen Lauritzen, Martin Wainwright, 2018-11-12 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 **Advances in Probabilistic Graphical Models** Peter Lucas, José A. Gámez, Antonio Salmerón Cerdan, 2007-06-12 In recent years considerable progress has been made in the area of probabilistic graphical models in particular Bayesian networks and influence diagrams Probabilistic graphical models have become mainstream in the area of uncertainty in artificial intelligence contributions to the area are coming from computer

science mathematics statistics and engineering This carefully edited book brings together in one volume some of the most important topics of current research in probabilistic graphical modelling learning from data and probabilistic inference This includes topics such as the characterisation of conditional independence the sensitivity of the underlying probability distribution of a Bayesian network to variation in its parameters the learning of graphical models with latent variables and extensions to the influence diagram formalism In addition attention is given to important application fields of probabilistic graphical models such as the control of vehicles bioinformatics and medicine Graphical Models for Categorical Data

Alberto Roverato, 2017-08-24 For advanced students of network data science this compact account covers both well established methodology and the theory of models recently introduced in the graphical model literature It focuses on the discrete case where all variables involved are categorical and in this context it achieves a unified presentation of classical and recent results Learning Probabilistic Graphical Models in R David Bellot, 2016-04-29 Familiarize yourself with probabilistic graphical models through real world problems and illustrative code examples in R About This Book Predict and use a probabilistic graphical models PGM as an expert system Comprehend how your computer can learn Bayesian modeling to solve real world problems Know how to prepare data and feed the models by using the appropriate algorithms from the appropriate R package Who This Book Is For This book is for anyone who has to deal with lots of data and draw conclusions from it especially when the data is noisy or uncertain Data scientists machine learning enthusiasts engineers and those who curious about the latest advances in machine learning will find PGM interesting What You Will Learn Understand the concepts of PGM and which type of PGM to use for which problem Tune the model s parameters and explore new models automatically Understand the basic principles of Bayesian models from simple to advanced Transform the old linear regression model into a powerful probabilistic model Use standard industry models but with the power of PGM Understand the advanced models used throughout today s industry See how to compute posterior distribution with exact and approximate inference algorithms In Detail Probabilistic graphical models PGM also known as graphical models are a marriage between probability theory and graph theory Generally PGMs use a graph based representation Two branches of graphical representations of distributions are commonly used namely Bayesian networks and Markov networks R has many packages to implement graphical models We ll start by showing you how to transform a classical statistical model into a modern PGM and then look at how to do exact inference in graphical models Proceeding we ll introduce you to many modern R packages that will help you to perform inference on the models We will then run a Bayesian linear regression and you ll see the advantage of going probabilistic when you want to do prediction Next you ll master using R packages and implementing its techniques Finally you ll be presented with machine learning applications that have a direct impact in many fields Here we ll cover clustering and the discovery of hidden information in big data as well as two important methods PCA and ICA to reduce the size of big problems Style and approach This book gives you a detailed and step by step explanation of each

mathematical concept which will help you build and analyze your own machine learning models and apply them to real world problems The mathematics is kept simple and each formula is explained thoroughly

Building Probabilistic Graphical Models with Python Kiran R. Karkera, 2014-06-14 This is a short practical guide that allows data scientists to understand the concepts of Graphical models and enables them to try them out using small Python code snippets without being too mathematically complicated If you are a data scientist who knows about machine learning and want to enhance your knowledge of graphical models such as Bayes network in order to use them to solve real world problems using Python libraries this book is for you This book is intended for those who have some Python and machine learning experience or are exploring the machine learning field

Probabilistic Graphical Models Daphne Koller, Nir Friedman, 2009-07-31 A general framework for constructing and using probabilistic models of complex systems that would enable a computer to use available information for making decisions Most tasks require a person or an automated system to reason to reach conclusions based on available information The framework of probabilistic graphical models presented in this book provides a general approach for this task The approach is model based allowing interpretable models to be constructed and then manipulated by reasoning algorithms These models can also be learned automatically from data allowing the approach to be used in cases where manually constructing a model is difficult or even impossible Because uncertainty is an inescapable aspect of most real world applications the book focuses on probabilistic models which make the uncertainty explicit and provide models that are more faithful to reality Probabilistic Graphical Models discusses a variety of models spanning Bayesian networks undirected Markov networks discrete and continuous models and extensions to deal with dynamical systems and relational data For each class of models the text describes the three fundamental cornerstones representation inference and learning presenting both basic concepts and advanced techniques Finally the book considers the use of the proposed framework for causal reasoning and decision making under uncertainty The main text in each chapter provides the detailed technical development of the key ideas Most chapters also include boxes with additional material skill boxes which describe techniques case study boxes which discuss empirical cases related to the approach described in the text including applications in computer vision robotics natural language understanding and computational biology and concept boxes which present significant concepts drawn from the material in the chapter Instructors and readers can group chapters in various combinations from core topics to more technically advanced material to suit their particular needs

Reasoning with Probabilistic and Deterministic Graphical Models Rina Dechter, 2013-12-01 Graphical models e g Bayesian and constraint networks influence diagrams and Markov decision processes have become a central paradigm for knowledge representation and reasoning in both artificial intelligence and computer science in general These models are used to perform many reasoning tasks such as scheduling planning and learning diagnosis and prediction design hardware and software verification and bioinformatics These problems can be stated as the formal tasks of constraint satisfaction and

satisfiability combinatorial optimization and probabilistic inference It is well known that the tasks are computationally hard but research during the past three decades has yielded a variety of principles and techniques that significantly advanced the state of the art In this book we provide comprehensive coverage of the primary exact algorithms for reasoning with such models The main feature exploited by the algorithms is the model's graph We present inference based message passing schemes e g variable elimination and search based conditioning schemes e g cycle cutset conditioning and AND OR search Each class possesses distinguished characteristics and in particular has different time vs space behavior We emphasize the dependence of both schemes on few graph parameters such as the treewidth cycle cutset and the pseudo tree height We believe the principles outlined here would serve well in moving forward to approximation and anytime based schemes The target audience of this book is researchers and students in the artificial intelligence and machine learning area and beyond

Graphical Models Michael Irwin Jordan, Terrence Joseph Sejnowski, 2001 This book exemplifies the interplay between the general formal framework of graphical models and the exploration of new algorithm and architectures The selections range from foundational papers of historical importance to results at the cutting edge of research Graphical models use graphs to represent and manipulate joint probability distributions They have their roots in artificial intelligence statistics and neural networks The clean mathematical formalism of the graphical models framework makes it possible to understand a wide variety of network based approaches to computation and in particular to understand many neural network algorithms and architectures as instances of a broader probabilistic methodology It also makes it possible to identify novel features of neural network algorithms and architectures and to extend them to more general graphical models This book exemplifies the interplay between the general formal framework of graphical models and the exploration of new algorithms and architectures The selections range from foundational papers of historical importance to results at the cutting edge of research Contributors H Attias C M Bishop B J Frey Z Ghahramani D Heckerman G E Hinton R Hofmann R A Jacobs Michael I Jordan H J Kappen A Krogh R Neal S K Riis F B Rodriguez L K Saul Terrence J Sejnowski P Smyth M E Tipping V Tresp Y Weiss *Probabilistic Graphical Models for Genetics, Genomics, and Postgenomics* Raphaël Mourad, 2014-09-18 Nowadays bioinformaticians and geneticists are faced with myriad high throughput data usually presenting the characteristics of uncertainty high dimensionality and large complexity These data will only allow insights into this wealth of so called omics data if represented by flexible and scalable models prior to any further analysis At the interface between statistics and machine learning probabilistic graphical models PGMs represent a powerful formalism to discover complex networks of relations These models are also amenable to incorporating a priori biological information Network reconstruction from gene expression data represents perhaps the most emblematic area of research where PGMs have been successfully applied However these models have also created renewed interest in genetics in the broad sense in particular regarding association genetics causality discovery prediction of outcomes detection of copy number variations and epigenetics This book provides an overview of the

applications of PGMs to genetics genomics and postgenomics to meet this increased interest A salient feature of bioinformatics interdisciplinarity reaches its limit when an intricate cooperation between domain specialists is requested Currently few people are specialists in the design of advanced methods using probabilistic graphical models for postgenomics or genetics This book deciphers such models so that their perceived difficulty no longer hinders their use and focuses on fifteen illustrations showing the mechanisms behind the models Probabilistic Graphical Models for Genetics Genomics and Postgenomics covers six main themes 1 Gene network inference 2 Causality discovery 3 Association genetics 4 Epigenetics 5 Detection of copy number variations 6 Prediction of outcomes from high dimensional genomic data Written by leading international experts this is a collection of the most advanced work at the crossroads of probabilistic graphical models and genetics genomics and postgenomics The self contained chapters provide an enlightened account of the pros and cons of applying these powerful techniques Bayesian Network Technologies: Applications and Graphical Models Mittal, Ankush, Kassim, Ashraf, 2007-03-31 This book provides an excellent well balanced collection of areas where Bayesian networks have been successfully applied it describes the underlying concepts of Bayesian Networks with the help of diverse applications and theories that prove Bayesian networks valid Provided by publisher

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