Yunfei Xu

Jongeun Choi

Sarat Dass

Tapabrata Maiti

Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks

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Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks Yunfei Xu,Jongeun Choi,Sarat Dass,Tapabrata Maiti,2015-10-27 This brief introduces a class of problems and models for the prediction of the scalar field of interest from noisy observations collected by mobile sensor networks It also introduces the problem of optimal coordination of robotic sensors to maximize the prediction quality subject to communication and mobility constraints either in a centralized or distributed manner To solve such problems fully Bayesian approaches are adopted allowing various sources of uncertainties to be integrated into an inferential framework effectively capturing all aspects of variability involved The fully Bayesian approach also allows the most appropriate values for additional model parameters to be selected automatically by data and the optimal inference and prediction for the underlying scalar field to be achieved In particular spatio temporal Gaussian process regression is formulated for robotic sensors to fuse multifactorial effects of observations measurement noise and prior distributions for obtaining the predictive distribution of a scalar environmental field of interest New techniques are introduced to avoid computationally prohibitive Markov chain Monte Carlo methods for resource constrained mobile sensors Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks starts with a simple spatio temporal model and increases the level of model flexibility and uncertainty step by step simultaneously solving increasingly complicated problems and coping with increasing complexity until it ends with fully Bayesian approaches that take into account a broad spectrum of uncertainties in observations model parameters and constraints in mobile sensor networks The book is timely being very useful for many researchers in control robotics computer science and statistics trying to tackle a variety of tasks such as environmental monitoring and adaptive sampling surveillance exploration and plume tracking which are of increasing currency Problems are solved creatively by seamless combination of theories and concepts from Bayesian statistics mobile sensor networks optimal experiment design and distributed computation **The Semantic Web - ISWC 2010** Peter F. Patel-Schneider,Yue Pan,Pascal Hitzler,Peter Mika,Lei Zhang,Jeff Z. Pan,Birte Glimm,Ian Horrocks,2011-01-04 This book constitutes the refereed proceedings of the 7th International Semantic Web Conference ISWC 2008 held in Karlsruhe Germany during October 26 30 2008 The volume contains 43 revised full research papers selected from a total of 261 submissions of which an additional 3 papers were referred to the semantic Web in use track 11 papers out of 26 submissions to the semantic Web in use track and 7 papers and 12 posters accepted out of 39 submissions to the doctorial consortium The topics covered in the research track are ontology engineering data management software and service engineering non standard reasoning with ontologies semantic retrieval OWL ontology alignment description logics user interfaces Web data and knowledge semantic Web services semantic social networks and rules and relatedness The semantic Web in use track covers knowledge management business applications applications from home to space and services and infrastructure **Mathematical Models for Intertemporal Choice** Salvador Cruz Rambaud,Taiki

Takahashi,2021-09-30   Meta-Learning Lan Zou,2022-11-05 Deep neural networks DNNs with their dense and complex algorithms provide real possibilities for Artificial General Intelligence AGI Meta learning with DNNs brings AGI much closer artificial agents solving intelligent tasks that human beings can achieve even transcending what they can achieve Meta Learning Theory Algorithms and Applications shows how meta learning in combination with DNNs advances towards AGI Meta Learning Theory Algorithms and Applications explains the fundamentals of meta learning by providing answers to these questions What is meta learning why do we need meta learning how are self improved meta learning mechanisms heading for AGI how can we use meta learning in our approach to specific scenarios The book presents the background of seven mainstream paradigms meta learning few shot learning deep learning transfer learning machine learning probabilistic modeling and Bayesian inference It then explains important state of the art mechanisms and their variants for meta learning including memory augmented neural networks meta networks convolutional Siamese neural networks matching networks prototypical networks relation networks LSTM meta learning model agnostic meta learning and the Reptile algorithm The book takes a deep dive into nearly 200 state of the art meta learning algorithms from top tier conferences e g NeurIPS ICML CVPR ACL ICLR KDD It systematically investigates 39 categories of tasks from 11 real world application fields Computer Vision Natural Language Processing Meta Reinforcement Learning Healthcare Finance and Economy Construction Materials Graphic Neural Networks Program Synthesis Smart City Recommended Systems and Climate Science Each application field concludes by looking at future trends or by giving a summary of available resources Meta Learning Theory Algorithms and Applications is a great resource to understand the principles of meta learning and to learn state of the art meta learning algorithms giving the student researcher and industry professional the ability to apply meta learning for various novel applications A comprehensive overview of state of the art meta learning techniques and methods associated with deep neural networks together with a broad range of application areas Coverage of nearly 200 state of the art meta learning algorithms which are promoted by premier global AI conferences and journals and 300 to 450 pieces of key research Systematic and detailed exploration of the most crucial state of the art meta learning algorithm mechanisms model based metric based and optimization based Provides solutions to the limitations of using deep learning and or machine learning methods particularly with small sample sizes and unlabeled data Gives an understanding of how meta learning acts as a stepping stone to Artificial General Intelligence in 39 categories of tasks from 11 real world application fields   *Risk Analysis of Complex and Uncertain Systems* Louis Anthony Cox Jr.,2009-06-12 In Risk Analysis of Complex and Uncertain Systems acknowledged risk authority Tony Cox shows all risk practitioners how Quantitative Risk Assessment QRA can be used to improve risk management decisions and policies It develops and illustrates QRA methods for complex and uncertain biological engineering and social systems systems that have behaviors that are just too complex to be modeled accurately in detail with high confidence and shows how they can be applied to applications including assessing and managing risks from chemical

carcinogens antibiotic resistance mad cow disease terrorist attacks and accidental or deliberate failures in telecommunications network infrastructure This book was written for a broad range of practitioners including decision risk analysts operations researchers and management scientists quantitative policy analysts economists health and safety risk assessors engineers and modelers *Nonlinear Filtering* Jitendra R. Raol,Girija Gopalratnam,Bhekisipho Twala,2017-07-12 Nonlinear Filtering covers linear and nonlinear filtering in a comprehensive manner with appropriate theoretic and practical development Aspects of modeling estimation recursive filtering linear filtering and nonlinear filtering are presented with appropriate and sufficient mathematics A modeling control system approach is used when applicable and detailed practical applications are presented to elucidate the analysis and filtering concepts MATLAB routines are included and examples from a wide range of engineering applications including aerospace automated manufacturing robotics and advanced control systems are referenced throughout the text **Handbook of Item Response Theory** Wim J. van der Linden,2018-02-19 Drawing on the work of 75 internationally acclaimed experts in the field Handbook of Item Response Theory Three Volume Set presents all major item response models classical and modern statistical tools used in item response theory IRT and major areas of applications of IRT in educational and psychological testing medical diagnosis of patient reported outcomes and marketing research It also covers CRAN packages WinBUGS Bilog MG Multilog Parscale IRTPRO Mplus GLLAMM Latent Gold and numerous other software tools A full update of editor Wim J van der Linden and Ronald K Hambleton s classic Handbook of Modern Item Response Theory this handbook has been expanded from 28 chapters to 85 chapters in three volumes The three volumes are thoroughly edited and cross referenced with uniform notation format and pedagogical principles across all chapters Each chapter is self contained and deals with the latest developments in IRT **Handbook of Applied Hydrology, Second Edition** Vijay P. Singh,2016-03-07 Fully Updated Hydrology Principles Methods and Applications Thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who s who of international hydrology experts Compiled by a colleague of the late Dr Chow Chow s Handbook of Applied Hydrology Second Edition covers scientific and engineering fundamentals and presents all new methods processes and technologies Complete details are provided for the full range of ecosystems and models Advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security Chow s Handbook of Applied Hydrology Second Edition covers The Fundamentals of Hydrology Data Collection and Processing Hydrology Methods Hydrologic Processes and Modeling Sediment and Pollutant Transport Hydrometeorologic and Hydrologic Extremes Systems Hydrology Hydrology of Large River and Lake Basins Applications and Design The Future of Hydrology *Encyclopedia of Sustainable Technologies* Martin Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a

wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies <u>Electrical & Electronics Abstracts</u> ,1995

Bayesian Adaptive Sampling for Discrete Design Alternatives in Conceptual Design Jose Eugenio Valenzuela-Del Rio,2013 The number of technology alternatives has lately grown to satisfy the increasingly demanding goals in modern engineering These technology alternatives are handled in the design process as either concepts or categorical design inputs Additionally designers desire to bring into early design more and more accurate but also computationally burdensome simulation tools to obtain better performing initial designs that are more valuable in subsequent design stages It constrains the computational budget to optimize the design space These two factors unveil the need of a conceptual design methodology to use more efficiently sophisticated tools for engineering problems with several concept solutions and categorical design choices Enhanced initial designs and discrete alternative selection are pursued Advances in computational speed and the development of Bayesian adaptive sampling techniques have enabled the industry to move from the use of look up tables and simplified models to complex physics based tools in conceptual design These techniques focus computational resources on promising design areas Nevertheless the vast majority of the work has been done on problems with continuous spaces whereas concepts and categories are treated independently However observations show that engineering objectives experience similar topographical trends across many engineering alternatives In order to address these challenges two meta models are developed The first one borrows the Hamming distance and function space norms from machine learning and functional analysis respectively These distances allow defining categorical metrics that are used to build an unique probabilistic surrogate whose domain includes not only continuous and integer variables but also categorical ones The second meta model is based on a multi fidelity approach that enhances a concept prediction with previous concept observations These methodologies leverage similar trends seen from observations and make a better use of sample points increasing the quality of the output in the discrete alternative selection and initial designs for a given analysis budget An extension of stochastic mixed integer optimization techniques to include the categorical dimension is developed by adding

appropriate generation mutation and crossover operators The resulted stochastic algorithm is employed to adaptively sample mixed integer categorical design spaces The proposed surrogates are compared against traditional independent methods for a set of canonical problems and a physics based rotor craft model on a screened design space Next adaptive sampling algorithms on the developed surrogates are applied to the same problems These tests provide evidence of the merit of the proposed methodologies Finally a multi objective rotor craft design application is performed in a large domain space This thesis provides several novel academic contributions The first contribution is the development of new efficient surrogates for systems with categorical design choices Secondly an adaptive sampling algorithm is proposed for systems with mixed integer categorical design spaces Finally previously sampled concepts can be brought to construct efficient surrogates of novel concepts With engineering judgment design community could apply these contributions to discrete alternative selection and initial design assessment when similar topographical trends are observed across different categories and or concepts Also it could be crucial to overcome the current cost of carrying a set of concepts and wider design spaces in the categorical dimension forward into preliminary design   **Science Abstracts** ,1995   **Adaptive Sampling Schemes and Bayesian Semiparametric Survival Analysis** Bo Cai (PhD.),2003   An Adaptive Importance Sampling Algorithm for Bayesian Inversion with Multimodal Distributions ,2015 Parametric uncertainties are encountered in the simulations of many physical systems and may be reduced by an inverse modeling procedure that calibrates the simulation results to observations on the real system being simulated Following Bayes rule a general approach for inverse modeling problems is to sample from the posterior distribution of the uncertain model parameters given the observations However the large number of repetitive forward simulations required in the sampling process could pose a prohibitive computational burden This difficulty is particularly challenging when the posterior is multimodal We present in this paper an adaptive importance sampling algorithm to tackle these challenges Two essential ingredients of the algorithm are 1 a Gaussian mixture GM model adaptively constructed as the proposal distribution to approximate the possibly multimodal target posterior and 2 a mixture of polynomial chaos PC expansions built according to the GM proposal as a surrogate model to alleviate the computational burden caused by computational demanding forward model evaluations In three illustrative examples the proposed adaptive importance sampling algorithm demonstrates its capabilities of automatically finding a GM proposal with an appropriate number of modes for the specific problem under study and obtaining a sample accurately and efficiently representing the posterior with limited number of forward simulations   *Bayesian Approaches for Adaptive Spatial Sampling* R. L. Johnson,J. Quinn,D. LePoire,A. Huttenga,2005 BAASS Bayesian Approaches for Adaptive Spatial Sampling is a set of computational routines developed to support the design and deployment of spatial sampling programs for delineating contamination footprints such as those that might result from the accidental or intentional environmental release of radionuclides BAASS presumes the existence of real time measurement technologies that provide information quickly enough to affect the

progress of data collection This technical memorandum describes the application of BAASS to a simple example compares the performance of a BAASS based program with that of a traditional gridded program and explores the significance of several of the underlying assumptions required by BAASS These assumptions include the range of spatial autocorrelation present the value of prior information the confidence level required for decision making and inside out versus outside in sampling strategies In the context of the example adaptive sampling combined with prior information significantly reduced the number of samples required to delineate the contamination footprint **Bayesian Sampling for Smoothing Parameter Estimation** Shuowen Hu,2015 Kernel density estimation is one of the most important techniques for understanding the distributional properties of data It is understood that the effectiveness of such approach depends on the choice of a kernel function and the choice of a smoothing parameter bandwidth This thesis has undertaken some important topics in bandwidth selection for kernel density estimation for data that behave in various nature The first issue evolves around selecting appropriate bandwidth given the characteristics of the local data in multivariate setting In Chapter 3 the study proposes a kernel density estimator with tail adaptive bandwidths The study derives posterior of bandwidth parameters based on the Kullback Leibler information and presented an MCMC sampling algorithm to estimate bandwidths The Monte Carlo simulation study shows that the kernel density estimator with tail adaptive bandwidths estimated through the proposed sampling algorithm outperforms its competitor The tail adaptive kernel density estimator is applied to the estimation of bivariate density of the paired daily returns of the Australian Ordinary index and S P 500 index during the period of global financial crisis The results show that this estimator could capture richer dynamics in the tail area than the density estimator with a global bandwidth estimated through the normal reference rule and a Bayesian sampling algorithm The second research project investigates bandwidth selection for multimodal distributions or data that exhibits clustering behaviours Chapter 4 proposes a cluster adaptive bandwidth kernel density estimator for data with multimodality This method employs a clustering algorithm to assign a different bandwidth to each cluster identified in the data set The study derives a posterior of bandwidth parameters based on the Kullback Leibler information and presented an MCMC sampling algorithm to estimate bandwidths The Monte Carlo simulation study shows that when the underlying density is a mixture of normals the kernel density estimator with cluster adaptive bandwidths estimated through the proposed sampling algorithm outperforms its competitor When the underlying densities are fat tailed the combined approach of tail and cluster adaptive density estimator performs the best In an empirical study bandwidth matrices are estimated for the cluster adaptive kernel density estimator of eruption duration and waiting time to the next eruption collected from Old Faithful greyer which is often analysed due to its clustering nature The results again shows clear advantage of the proposed cluster adaptive kernel density estimator over traditional approaches The third topic extends the Bayesian bandwidth selection method to volatility models of financial asset return series The study is motivated by the fact that only limited attention in the literature has been invested on the

estimation of nonparametric nonlinear type of volatility models through a Bayesian approach Chapter 5 presents a new volatility model called the semiparametic nonlinear volatility SNV model Based on financial return series of major stock indices in the world the performance of the proposed volatility model against the competing models are examined in both in sample and out of sample periods The proposed model and the Bayesian estimation method show strong and convincing performance results The study also evaluates the empirical value at risk VaR performance of the competing models The proposed volatility model shows the best performance in most cases <u>Adaptive Sampling and Online Enrichment Strategies for RB-based PDE-constrained Stochastic Optimization</u> Fabio Hauger,2021 *Machine Learning* Kevin P. Murphy,2012-08-24 A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach Today s Web enabled deluge of electronic data calls for automated methods of data analysis Machine learning provides these developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data This textbook offers a comprehensive and self contained introduction to the field of machine learning based on a unified probabilistic approach The coverage combines breadth and depth offering necessary background material on such topics as probability optimization and linear algebra as well as discussion of recent developments in the field including conditional random fields L1 regularization and deep learning The book is written in an informal accessible style complete with pseudo code for the most important algorithms All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology text processing computer vision and robotics Rather than providing a cookbook of different heuristic methods the book stresses a principled model based approach often using the language of graphical models to specify models in a concise and intuitive way Almost all the models described have been implemented in a MATLAB software package PMTK probabilistic modeling toolkit that is freely available online The book is suitable for upper level undergraduates with an introductory level college math background and beginning graduate students **Adaptive Bayesian Sampling with Application to 'bubbles'** Ekaterina Ignatieva,2008 *An Optimization Based Algorithm for Bayesian Inference* ,2015 In the Bayesian statistical paradigm uncertainty in the parameters of a physical system is characterized by a probability distribution Information from observations is incorporated by updating this distribution from prior to posterior Quantities of interest such as credible regions event probabilities and other expectations can then be obtained from the posterior distribution One major task in Bayesian inference is then to characterize the posterior distribution for example through sampling Markov chain Monte Carlo MCMC algorithms are often used to sample from posterior distributions using only unnormalized evaluations of the posterior density However high dimensional Bayesian inference problems are challenging for MCMC type sampling algorithms because accurate proposal distributions are needed in order for the sampling to be efficient One method to obtain efficient proposal samples is an optimization based algorithm titled Randomize then Optimize RTO We build upon RTO by developing a new geometric interpretation that describes the

samples as projections of Gaussian distributed points in the joint data and parameter space onto a nonlinear manifold defined by the forward model This interpretation reveals generalizations of RTO that can be used We use this interpretation to draw connections between RTO and two other sampling techniques transport map based MCMC and implicit sampling In addition we motivate and propose an adaptive version of RTO designed to be more robust and efficient Finally we introduce a variable transformation to apply RTO to problems with non Gaussian priors such as Bayesian inverse problems with Li type priors We demonstrate several orders of magnitude in computational savings from this strategy on a high dimensional inverse problem

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