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Bayesian Prediction and Adaptive Sampling Algorithms for Mobile Sensor Networks

Online Environmental Field Reconstruction in Space and Time

Online Bayesian Prediction Adaptive Sampling Algorithms

Makoto Onizuka,Jae-Gil Lee,Yongxin Tong,Chuan Xiao,Yoshiharu Ishikawa,Sihem Amer-Yahia,H. V. Jagadish,Kejing Lu

Online Bayesian Prediction Adaptive Sampling Algorithms:

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 **Sample Surveys: Inference and Analysis** ,2009-09-02 Handbook of Statistics_29B contains the most comprehensive account of sample surveys theory and practice to date It is a second volume on sample surveys with the goal of updating and extending the sampling volume published as volume 6 of the Handbook of Statistics in 1988 The present handbook is divided into two volumes 29A and 29B with a total of 41 chapters covering current developments in almost every aspect of sample surveys with references to important contributions and available software It can serve as a self contained guide to researchers and practitioners with appropriate balance between theory and real life applications Each of the two volumes is divided into three parts with each part preceded by an introduction summarizing the main developments in the areas covered in that part Volume 1 deals with methods of sample selection and data processing with the later including editing and imputation handling of outliers and measurement errors and methods of disclosure control The volume contains also a large variety of applications in specialized areas such as household and business surveys marketing research opinion polls and censuses

Volume 2 is concerned with inference distinguishing between design based and model based methods and focusing on specific problems such as small area estimation analysis of longitudinal data categorical data analysis and inference on distribution functions The volume contains also chapters dealing with case control studies asymptotic properties of estimators and decision theoretic aspects Comprehensive account of recent developments in sample survey theory and practice Covers a wide variety of diverse applications Comprehensive bibliography <u>Machine Learning and Knowledge Discovery in Databases</u> José L. Balcázar,Francesco Bonchi,Aristides Gionis,Michèle Sebag,2010-09-13 This book constitutes the refereed proceedings of the joint conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2010 held in Barcelona Spain in September 2010 The 120 revised full papers presented in three volumes together with 12 demos out of 24 submitted demos were carefully reviewed and selected from 658 paper submissions In addition 7 ML and 7 DM papers were distinguished by the program chairs on the basis of their exceptional scientific quality and high impact on the field The conference intends to provide an international forum for the discussion of the latest high quality research results in all areas related to machine learning and knowledge discovery in databases A topic widely explored from both ML and DM perspectives was graphs with motivations ranging from molecular chemistry to social networks **Handbook of Statistics_29B: Sample Surveys: Inference and Analysis** ,2000 *Database Systems for Advanced Applications* Makoto Onizuka,Jae-Gil Lee,Yongxin Tong,Chuan Xiao,Yoshiharu Ishikawa,Sihem Amer-Yahia,H. V. Jagadish,Kejing Lu,2024-09-01 The seven volume set LNCS 14850 14856 constitutes the proceedings of the 29th International Conference on Database Systems for Advanced Applications DASFAA 2024 held in Gifu Japan in July 2024 The total of 147 full papers along with 85 short papers presented together in this seven volume set was carefully reviewed and selected from 722 submissions Additionally 14 industrial papers 18 demo papers and 6 tutorials are included The conference presents papers on subjects such as Part I Spatial and temporal data database core technology federated learning Part II Machine learning text processing Part III Recommendation multi media Part IV Privacy and security knowledge base and graphs Part V Natural language processing large language model time series and stream data Part VI Graph and network hardware acceleration Part VII Emerging application industry papers demo papers **Application of Big Data, Blockchain, and Internet of Things for Education Informatization** Yinjun Zhang,Nazir Shah,2024-06-30 The five volume set LNICST 580 584 constitutes the proceedings of the Third EAI International Conference on Application of Big Data Blockchain and Internet of Things for Education Informatization BigIoT EDU 2023 held in Liuzhou China during August 29 31 2023 The 272 full papers presented in these proceedings were carefully reviewed and selected from 718 submissions With a primary focus on research fields such as Digitization of education Smart classrooms and Massive Online Open Courses MOOCs these papers are organized in the following topical sections across the five volumes Part I Application of data mining in smart education Application of intelligent algorithms in English teaching Part II Application of decision tree algorithm in intelligent

management system of universities Research on the application of Big data in smart teaching Part III Exploration of the application of computer aided technology in intelligent translation Application of neural network algorithms in intelligent teaching Application of artificial intelligence algorithms in the field of smart education Part IV Research on smart teaching in deep learning Research and application of recommendation algorithms in personalized intelligent education Application of cloud computing in intelligent teaching resource library Application research of computer aided online intelligent teaching Part V Application and practice of new media in smart teaching Application of clustering algorithm in intelligent education resource library Application of association rule algorithm in intelligent education system   Bayesian Treed Gaussian Process Models Robert B. Gramacy,2005   **European Robotics Forum 2024** Cristian Secchi,Lorenzo Marconi,2024-12-31 This book collects the scientific contributions presented at the European Robotics Forum ERF 2024 that is the reference event for the EuRobotics association In the months leading up to the forum a direct call was launched to the many industrial players who are members of EuRobotics and who were asked to specify particularly important areas of development according to their roadmap The outcome of this survey and the topics of the Workshops held during the forum have been used to calibrate an industry driven scientific program where research objectives meet industrial needs The contributions collected in the book cover a wide spectrum of robotics research encompassing mechatronics algorithms Artificial Intelligence Human Robot Collaboration and many robotic applications   **International Aerospace Abstracts** ,1999   *Proceedings* American Association for Artificial Intelligence,2006   Proceedings of the 25th Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society. Conference,2003   Mathematical Reviews ,2007   Index to IEEE Publications Institute of Electrical and Electronics Engineers,1998 Issues for 1973 cover the entire IEEE technical literature   **Proceedings of the Twenty-second AAAI Conference on Artificial Intelligence** ,2007   **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 **Meetings Abstracts** ,2006 **Artificial Intelligence** Stuart Jonathan Russell,Peter Norvig,Ernest Davis,2010 Artificial intelligence A Modern Approach 3e is ideal for one or two semester undergraduate or graduate level courses in Artificial Intelligence It is also a valuable resource for computer professionals linguists and cognitive scientists interested in artificial intelligence The revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence **Robotics** Gaurav Suhas Sukhatme,2007 Proceedings from the annual Robotics Science and Systems conference presenting state of the art research on the algorithmic and mathematical foundations of robotics robotics applications and robotics systems Robotics Science and Systems II spans all areas of robotics bringing together researchers working on the algorithmic and mathematical foundations of robotics robotics applications and analysis of robotics systems This volume presents the proceedings of the second annual Robotics Science and Systems conference held in August 2006 Papers report state of the

art research on topics as diverse as Legged Robotics Reconfigurable Robots Biomimetic Robots Manipulation Humanoid Robotics Telerobotics Haptics Motion Planning Collision Avoidance Robot Vision and Perception Bayesian Techniques Machine Learning Mobile Robots and Multi robot systems   *Proceedings of the ... International Computer Music Conference* ,2001   Science Abstracts ,1995

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