

Olivier Catoni


Statistical Learning Theory and Stochastic Optimization

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Statistical Learning Theory And Stochastic Optimization

Marco Casella



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Statistical Learning Theory and Stochastic Optimization Olivier Picard Jean Catoni, 2014-01-15 *Statistical learning theory and stochastic optimization* Olivier Catoni, 2004 **ECAI 2023** Kobi Gal, Ann Nowé, Grzegorz J. Nalepa, Roy Fairstein, Roxana Radulescu, 2023-10-15 Artificial intelligence or AI now affects the day to day life of almost everyone on the planet and continues to be a perennial hot topic in the news This book presents the proceedings of ECAI 2023 the 26th European Conference on Artificial Intelligence and of PAIS 2023 the 12th Conference on Prestigious Applications of Intelligent Systems held from 30 September to 4 October 2023 and on 3 October 2023 respectively in Krak w Poland Since 1974 ECAI has been the premier venue for presenting AI research in Europe and this annual conference has become the place for researchers and practitioners of AI to discuss the latest trends and challenges in all subfields of AI and to demonstrate innovative applications and uses of advanced AI technology ECAI 2023 received 1896 submissions a record number of which 1691 were retained for review ultimately resulting in an acceptance rate of 23% The 390 papers included here cover topics including machine learning natural language processing multi agent systems and vision and knowledge representation and reasoning PAIS 2023 received 17 submissions of which 10 were accepted after a rigorous review process Those 10 papers cover topics ranging from fostering better working environments behavior modeling and citizen science to large language models and neuro symbolic applications and are also included here Presenting a comprehensive overview of current research and developments in AI the book will be of interest to all those working in the field **Applications of Mathematics in Sciences, Engineering, and Economics** Andreas Ott, Wolfgang Reichel, John Alasdair Warwicker, 2026-01-01 This book addresses a broad range of mathematical methods and their usage in a wide variety of disciplines ranging from physics electrical engineering chemistry biology and computer sciences to society and economics Papers are contributed by an international group of authors and focus on unique problems from e g game theory algebraic topology for cognitive maps Fermat Weber methodology modeling and simulation in insurance sectors forecasting thunderstorms or wind gusts volcanic modeling machine learning in disease monitoring simulations in battery research and optical microresonators This book additionally highlights some very impactful research on inverse problems and computer tomography as well as highly relevant societal topics of protests management and their mathematical formulation This book promotes versatile mathematical methods in view of advancing applied disciplines with emphasis on mutual benefit This book serves as a reference guide for researchers for advancing their own research Moreover this book serves as reference source for students of mathematics sciences engineering or economics who are interested in interdisciplinary applications of mathematics *Limitations and Future Trends in Neural Computation*, 2003 *Procurement Analytics* Christian Mandl, 2023-12-28 This unique textbook explicitly addresses the intersection of advanced analytics and procurement It is motivated by one core question How can firms generate economic value from procurement data It demonstrates that

procurement is one of the major functions within a firm where data analytics artificial intelligence and operations research can successfully be leveraged to reduce cost and risk and to achieve resilience and sustainability goals The book provides a methods based overview of data driven optimization of purchasing decisions Besides presenting key concepts and applications it particularly focuses on implementation so as to help future procurement managers and data scientists quickly evaluate the value generated by a given data driven solution What sets this textbook apart is its combination of rigorous state of the art methodologies from academic research and first hand experience from various application oriented consulting projects in a range of industries Though primarily intended for graduate students with a major in procurement and supply chain management the book will also benefit purchasing managers with and without specific knowledge of advanced analytics techniques and data scientists with and without specific experience in procurement

Modelling, Computation and Optimization in Information Systems and Management Sciences Hoai An Le Thi, Tao Pham Dinh, Hoai Minh Le, 2025-10-27 This 2 volume set of proceedings contains 62 selected full papers presented at the Fifth International Conference on Modeling Computation and Optimization in Information Systems and Management Science MCO 2025 held on June 4-6 2025 in Metz France celebrating the 40th anniversary of DC Difference of Convex functions programming and DCA DC Algorithms pioneering and highly influential methodologies founded by Pham Dinh Tao and Le Thi Hoai An This second volume Part II features 31 articles on key areas of AI and data science including machine learning and big data computer vision and image processing explainability data privacy and fairness in trustworthy AI as well as innovations for health from data acquisition to AI driven analysis These proceedings are intended to serve as a lasting reference and a source of inspiration for research and applications in AI data science and emerging technologies

Magnetic Resonance Image Reconstruction Mehmet Akcakaya, Mariya Ivanova Doneva, Claudia Prieto, 2022-11-04 Magnetic Resonance Image Reconstruction Theory Methods and Applications presents the fundamental concepts of MR image reconstruction including its formulation as an inverse problem as well as the most common models and optimization methods for reconstructing MR images The book discusses approaches for specific applications such as non Cartesian imaging under sampled reconstruction motion correction dynamic imaging and quantitative MRI This unique resource is suitable for physicists engineers technologists and clinicians with an interest in medical image reconstruction and MRI Explains the underlying principles of MRI reconstruction along with the latest research Gives example codes for some of the methods presented Includes updates on the latest developments including compressed sensing tensor based reconstruction and machine learning based reconstruction

Mathematical Methods of Statistics, 2007 *Springer Handbook of Engineering Statistics* Hoang Pham, 2023-04-20 In today's global and highly competitive environment continuous improvement in the processes and products of any field of engineering is essential for survival This book gathers together the full range of statistical techniques required by engineers from all fields It will assist them to gain sensible statistical feedback on how their processes or

products are functioning and to give them realistic predictions of how these could be improved The handbook will be essential reading for all engineers and engineering connected managers who are serious about keeping their methods and products at the cutting edge of quality and competitiveness **Tutorials in Mathematical Biosciences** ,2008

PAC-Bayesian Supervised Classification Olivier Catoni,2007 This monograph deals with adaptive supervised classification using tools borrowed from statistical mechanics and information theory stemming from the PAC Bayesian approach pioneered by David McAllester and applied to a conception of statistical learning theory forged by Vladimir Vapnik Using convex analysis on the set of posterior probability measures we show how to get local measures of the complexity of the classification model involving the relative entropy of posterior distributions with respect to Gibbs posterior measures We then discuss relative bounds comparing the generalization error of two classification rules showing how the margin assumption of Mammen and Tsybakov can be replaced with some empirical measure of the covariance structure of the classification model We show how to associate to any posterior distribution an effective temperature relating it to the Gibbs prior distribution with the same level of expected error rate and how to estimate this effective temperature from data resulting in an estimator whose expected error rate converges according to the best possible power of the sample size adaptively under any margin and parametric complexity assumptions We describe and study an alternative selection scheme based on relative bounds between estimators and present a two step localization technique which can handle the selection of a parametric model from a family of those We show how to extend systematically all the results obtained in the inductive setting to transductive learning and use this to improve Vapnik s generalization bounds extending them to the case when the sample is made of independent non identically distributed pairs of patterns and labels Finally we review briefly the construction of Support Vector Machines and show how to derive generalization bounds for them measuring the complexity either through the number of support vectors or through the value of the transductive or inductive margin Project Euclid website **The Annals of Statistics** ,2007 **Resilience in the Digital Age** Fred S. Roberts,Igor A.

Sheremet,2021-02-19 The growth of a global digital economy has enabled rapid communication instantaneous movement of funds and availability of vast amounts of information With this come challenges such as the vulnerability of digitalized sociotechnological systems STSs to destructive events earthquakes disease events terrorist attacks Similar issues arise for disruptions to complex linked natural and social systems from changing climates evolving urban environments etc This book explores new approaches to the resilience of sociotechnological and natural social systems in a digital world of big data extraordinary computing capacity and rapidly developing methods of Artificial Intelligence Most of the book s papers were presented at the Workshop on Big Data and Systems Analysis held at the International Institute for Applied Systems Analysis in Laxenburg Austria in February 2020 Their authors are associated with the Task Group Advanced mathematical tools for data driven applied systems analysis created and sponsored by CODATA in November 2018 The world wide COVID 19

pandemic illustrates the vulnerability of our healthcare systems supply chains and social infrastructure and confronts our notions of what makes a system resilient We have found that use of AI tools can lead to problems when unexpected events occur On the other hand the vast amounts of data available from sensors satellite images social media etc can also be used to make modern systems more resilient Papers in the book explore disruptions of complex networks and algorithms that minimize departure from a previous state after a disruption introduce a multigrammatical framework for the technological and resource bases of today's large scale industrial systems and the transformations resulting from disruptive events and explain how robotics can enhance pre-emptive measures or post-disaster responses to increase resiliency Other papers explore current directions in data processing and handling and principles of FAIRness in data how the availability of large amounts of data can aid in the development of resilient STSs and challenges to overcome in doing so The book also addresses interactions between humans and built environments focusing on how AI can inform today's smart and connected buildings and make them resilient and how AI tools can increase resilience to misinformation and its dissemination **Annales de**

L'I.H.P., 2006 Mathematical Reviews, 2007 **Paris-Princeton Lectures on Mathematical Finance ...**, 2004

Combining Regression Mean and Quantile Estimators Kejia Shan, 2007 Stochastic Optimization for Multi-Agent Statistical Learning and Control Alec Koppel, 2017 The goal of this thesis is to develop a mathematical framework for optimal accurate and affordable complexity statistical learning among networks of autonomous agents We begin by noting the connection between statistical inference and stochastic programming and consider extensions of this setup to settings in which a network of agents each observes a local data stream and would like to make decisions that are good with respect to information aggregated across the entire network There is an open ended degree of freedom in this problem formulation however the selection of the estimator function class which defines the feasible set of the stochastic program Our central contribution is the design of stochastic optimization tools in reproducing kernel Hilbert spaces that yield optimal accurate and affordable complexity statistical learning for a multi agent network To obtain this result we first explore the relative merits and drawbacks of different function class selections In Part I we consider multi agent expected risk minimization this problem setting for the case that each agent seems to learn a common globally optimal generalized linear models GLMs by developing a stochastic variant of Arrow Hurwicz primal dual method We establish convergence to the primal dual optimal pair when either consensus or proximity constraints encode the fact that we want all agents to agree or nearby agents to make decisions that are close to one another Empirically we observe that these convergence results are substantiated but that convergence may not translate into statistical accuracy More broadly optimality within a given estimator function class is not the same as one that makes minimal inference errors The optimality accuracy tradeoff of GLMs motivates subsequent efforts to learn more sophisticated estimators based upon learned feature encodings of the data that is fed into the statistical model The specific tool we turn to in Part II is dictionary learning where we optimize both over regression weights and an

encoding of the data which yields a non convex problem We investigate the use of stochastic methods for online task driven dictionary learning and obtain promising performance for the task of a ground robot learning to anticipate control uncertainty based on its past experience Heartened by this implementation we then consider extensions of this framework for a multi agent network to each learn globally optimal task driven dictionaries based on stochastic primal dual methods However it is here the non convexity of the optimization problem causes problems stringent conditions on stochastic errors and the duality gap limit the applicability of the convergence guarantees and impractically small learning rates are required for convergence in practice Thus we seek to learn nonlinear statistical models while preserving convexity which is possible through kernel methods Part III However the increased descriptive power of nonparametric estimation comes at the cost of infinite complexity Thus we develop a stochastic approximation algorithm in reproducing kernel Hilbert spaces RKHS that ameliorates this complexity issue while preserving optimality we combine the functional generalization of stochastic gradient method FSGD with greedily constructed low dimensional subspace projections based on matching pursuit We establish that the proposed method yields a controllable trade off between optimality and memory and yields highly accurate parsimonious statistical models in practice Then we develop a multi agent extension of this method by proposing a new node separable penalty function and applying FSGD together with low dimensional subspace projections This extension allows a network of autonomous agents to learn a memory efficient approximation to the globally optimal regression function based only on their local data stream and message passing with neighbors In practice we observe agents are able to stably learn highly accurate and memory efficient nonlinear statistical models from streaming data From here we shift focus to a more challenging class of problems motivated by the fact that true learning is not just revising predictions based upon data but augmenting behavior over time based on temporal incentives This goal may be described by Markov Decision Processes MDPs at each point an agent is in some state of the world takes an action and then receives a reward while randomly transitioning to a new state The goal of the agent is to select the action sequence to maximize its long term sum of rewards but determining how to select this action sequence when both the state and action spaces are infinite has eluded researchers for decades As a precursor to this feat we consider the problem of policy evaluation in infinite MDPs in which we seek to determine the long term sum of rewards when starting in a given state when actions are chosen according to a fixed distribution called a policy We reformulate this problem as a RKHS valued compositional stochastic program and we develop a functional extension of stochastic quasi gradient algorithm operating in tandem with the greedy subspace projections mentioned above We prove convergence with probability 1 to the Bellman fixed point restricted to this function class and we observe a state of the art trade off in memory versus Bellman error for the proposed method on the Mountain Car driving task which bodes well for incorporating policy evaluation into more sophisticated provably stable reinforcement learning techniques and in time developing optimal collaborative multi agent learning based control systems

SIAM Journal on Control and Optimization

Society for Industrial and Applied Mathematics, 2009

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