

# 1 Grammatical inference

is about learning a **grammar** given information about a **language**

- Information is strings, trees or graphs
- Information can be (typically)
  - Text: only positive information
  - Informant: labelled data
  - Actively sought (query learning, teaching)

*Above lists are not limitative*

# Grammatical Inference

**Vasant Honavar**



## **Grammatical Inference:**

Grammatical Inference: Algorithms and Applications Arlindo L. Oliveira, 2004-02-13 This book constitutes the refereed proceedings of the 5th International Colloquium on Grammatical Inference ICGI 2000 held in Lisbon Portugal in September 2000 The 24 revised full papers presented were carefully reviewed and selected from 35 submissions The papers address topics like machine learning automata theoretical computer science computational linguistics pattern recognition artificial neural networks natural language acquisition computational biology information retrieval text processing and adaptive intelligent agents

*Grammatical Inference* Colin de la Higuera, 2010-04-01 The problem of inducing learning or inferring grammars has been studied for decades but only in recent years has grammatical inference emerged as an independent field with connections to many scientific disciplines including bio informatics computational linguistics and pattern recognition This book meets the need for a comprehensive and unified summary of the basic techniques and results suitable for researchers working in these various areas In Part I the objects of use for grammatical inference are studied in detail strings and their topology automata and grammars whether probabilistic or not Part II carefully explores the main questions in the field What does learning mean How can we associate complexity theory with learning In Part III the author describes a number of techniques and algorithms that allow us to learn from text from an informant or through interaction with the environment These concern automata grammars rewriting systems pattern languages or transducers

*Grammatical Inference: Algorithms and Applications* Georgios Paliouras, Yasubumi Sakakibara, 2005-01-11

*Grammatical Inference: Algorithms and Applications* Pieter Adriaans, Henning Fernau, Menno van Zaanen, 2003-08-02 The Sixth International Colloquium on Grammatical Inference ICGI2002 was held in Amsterdam on September 23 25th 2002 ICGI2002 was the sixth in a series of successful biennial international conferences on the area of grammatical inference Previous meetings were held in Essex U K Alicante Spain Montpellier France Ames Iowa USA Lisbon Portugal This series of meetings seeks to provide a forum for the presentation and discussion of original research on all aspects of grammatical inference Grammatical inference the process of inferring grammars from given data is a field that not only is challenging from a purely scientific standpoint but also finds many applications in real world problems Despite the fact that grammatical inference addresses problems in a relatively narrow area it uses techniques from many domains and is positioned at the intersection of a number of different disciplines Researchers in grammatical inference come from fields as diverse as machine learning theoretical computer science computational linguistics pattern recognition and artificial neural networks From a practical standpoint applications in areas like natural language acquisition computational biology structural pattern recognition information retrieval text processing data compression and adaptive intelligent agents have either been demonstrated or proposed in the literature The technical program included the presentation of 23 accepted papers out of 41 submitted Moreover for the first time a software presentation was organized at ICGI Short descriptions of the corresponding software are included in these proceedings too

**Grammatical Inference and Applications** Rafael C. Carrasco, Jose Oncina, 1994-09-07 This volume presents the proceedings of the Second International Colloquium on Grammatical Inference ICGI 94 held in Alicante Spain in September 1994 Besides 25 research papers carefully selected and refereed by the program committee the book contains a survey by E Vidal The book is devoted to all those aspects of automatic learning that explicitly focus on principles theory and applications of grammars and languages The papers are organized in sections on formal aspects language modelling and linguistic applications stochastic approaches applications and performance analysis and neural networks genetic algorithms and artificial intelligence techniques

**Grammatical Inference** Colin de la Higuera, 2010-04-01 The problem of inducing learning or inferring grammars has been studied for decades but only in recent years has grammatical inference emerged as an independent field with connections to many scientific disciplines including bio informatics computational linguistics and pattern recognition This book meets the need for a comprehensive and unified summary of the basic techniques and results suitable for researchers working in these various areas In Part I the objects of use for grammatical inference are studied in detail strings and their topology automata and grammars whether probabilistic or not Part II carefully explores the main questions in the field What does learning mean How can we associate complexity theory with learning In Part III the author describes a number of techniques and algorithms that allow us to learn from text from an informant or through interaction with the environment These concern automata grammars rewriting systems pattern languages or transducers

*Grammatical Inference: Theoretical Results and Applications* José Sempere, Pedro García, 2010-09-03 This book constitutes the refereed proceedings of the 10th International Colloquium on Grammatical Inference ICGI 2010 held in Valencia Spain in September 2010 The 18 revised full papers and 14 revised short papers presented were carefully reviewed and selected from numerous submissions The topics of the papers presented vary from theoretical results about the learning of different formal language classes regular context free context sensitive etc to application papers on bioinformatics language modelling or software engineering Furthermore there are two invited papers on the topics grammatical inference and games and molecules languages and automata

**Grammatical Inference** Vasant Honavar, 1998-07 This book constitutes the refereed proceedings of the Fourth International Colloquium on Grammatical Inference ICGI 98 held in Ames Iowa in July 1998 The 23 revised full papers were carefully reviewed and selected for inclusion in the book from a total of 35 submissions The book addresses a wide range of grammatical inference theory such as automata induction grammar induction automatic language acquisition etc as well as a variety of applications in areas like syntactic pattern recognition adaptive intelligent agents diagnosis computational biology data mining and knowledge discovery

*Grammatical Inference for Computational Linguistics* Jeffrey Heinz, Colin de la Higuera, Menno van Zaanen, 2015-10-01 This book provides a thorough introduction to the subfield of theoretical computer science known as grammatical inference from a computational linguistic perspective Grammatical inference provides principled methods for developing computationally sound algorithms

that learn structure from strings of symbols The relationship to computational linguistics is natural because many research problems in computational linguistics are learning problems on words phrases and sentences What algorithm can take as input some finite amount of data for instance a corpus annotated or otherwise and output a system that behaves correctly on specific tasks Throughout the text the key concepts of grammatical inference are interleaved with illustrative examples drawn from problems in computational linguistics Special attention is paid to the notion of learning bias In the context of computational linguistics such bias can be thought to reflect common ideally universal properties of natural languages This bias can be incorporated either by identifying a learnable class of languages which contains the language to be learned or by using particular strategies for optimizing parameter values Examples are drawn largely from two linguistic domains phonology and syntax which span major regions of the Chomsky Hierarchy from regular to context sensitive classes The conclusion summarizes the major lessons and open questions that grammatical inference brings to computational linguistics

Grammatical Inference Wojciech Wieczorek, 2016-10-25 This book focuses on grammatical inference presenting classic and modern methods of grammatical inference from the perspective of practitioners To do so it employs the Python programming language to present all of the methods discussed Grammatical inference is a field that lies at the intersection of multiple disciplines with contributions from computational linguistics pattern recognition machine learning computational biology formal learning theory and many others divThough the book is largely practical it also includes elements of learning theory combinatorics on words the theory of automata and formal languages plus references to real world problems The listings presented here can be directly copied and pasted into other programs thus making the book a valuable source of ready recipes for students academic researchers and programmers alike as well as an inspiration for their further development

Grammatical Inference: Algorithms and Applications Yasibumi Sakaibara, Satoshi Kobayashi, Kengo Sato, Tetsuro Nishino, Etsuji Tomita, 2006-09-18 This book constitutes the refereed proceedings of the 8th International Colloquium on Grammatical Inference ICGI 2006 The book presents 25 revised full papers and 8 revised short papers together with 2 invited contributions carefully reviewed and selected The topics discussed range from theoretical results of learning algorithms to innovative applications of grammatical inference and from learning several interesting classes of formal grammars to applications to natural language processing

*Grammatical Inference: Algorithms and Applications* Alexander Clark, François Coste, Laurent Miclet, 2008-09-11 This book constitutes the refereed proceedings of the 9th International Colloquium on Grammatical Inference ICGI 2008 held in Saint Malo France in September 2008 The 21 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 36 submissions The topics of the papers presented vary from theoretical results of learning algorithms to innovative applications of grammatical inference and from learning several interesting classes of formal grammars to applications to natural language processing

Grammatical Inference by Constructive Method Jiunn-I Liou, 1977

*Topics in Grammatical Inference* Jeffrey Heinz, José M.

Sempere,2016-05-04 This book explains advanced theoretical and application related issues in grammatical inference a research area inside the inductive inference paradigm for machine learning The first three chapters of the book deal with issues regarding theoretical learning frameworks the next four chapters focus on the main classes of formal languages according to Chomsky s hierarchy in particular regular and context free languages and the final chapter addresses the processing of biosequences The topics chosen are of foundational interest with relatively mature and established results algorithms and conclusions The book will be of value to researchers and graduate students in areas such as theoretical computer science machine learning computational linguistics bioinformatics and cognitive psychology who are engaged with the study of learning especially of the structure underlying the concept to be learned Some knowledge of mathematics and theoretical computer science including formal language theory automata theory formal grammars and algorithmics is a prerequisite for reading this book

A Study of Grammatical Inference James J. Horning,1969 Grammatical inference is an inductive process of discovering an acceptable grammar for a language on the basis of finite samples from the language The study has the goals of devising useful inference procedures and of demonstrating a sound formal basis for such procedures It states the general grammatical inference problem for formal languages reviews previous work establishes definitions and notation and states a position on evaluation measures It indicates a solution for a particular class of grammatical inference problems based on an assumed probabilistic structure Author

**Grammatical Inference: Learning Syntax from Sentences** Laurent Miclet,Colin de la Higuera,1996-09-16 This book constitutes the refereed proceedings of the Third International Colloquium on Grammatical Inference ICGI 96 held in Montpellier France in September 1996 The 25 revised full papers contained in the book together with two invited key papers by Magerman and Knuutila were carefully selected for presentation at the conference The papers are organized in sections on algebraic methods and algorithms natural language and pattern recognition inference and stochastic models incremental methods and inductive logic programming and operational issues

Grammatical Inference ,2004 *Grammatical Inference: Algorithms and Applications* Pieter Adriaans,Henning Fernau,Menno van Zaanen,2002-09-11 The Sixth International Colloquium on Grammatical Inference ICGI2002 was held in Amsterdam on September 23 25th 2002 ICGI2002 was the sixth in a series of successful biennial international conferenceson the area of grammatical inference Previous meetings were held in Essex U K Alicante Spain Montpellier France Ames Iowa USA Lisbon Portugal This series of meetings seeks to provide a forum for the presentation and discussion of original research on all aspects of grammatical inference Grammatical inference the process of inferring grammars from given data is a field that not only is challenging from a purely scientific standpoint but also finds many applications in real world problems Despite the fact that grammatical inference addresses problems in a relatively narrow area it uses techniques from many domains and is positioned at the intersection of a number of different disciplines Researchers in grammatical inference come from fields as diverse as machine learning theoretical computer science

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**Encyclopedia of Machine Learning** Claude Sammut, Geoffrey I. Webb, 2011-03-28 This comprehensive encyclopedia in A Z format provides easy access to relevant information for those seeking entry into any aspect within the broad field of Machine Learning Most of the entries in this preeminent work include useful literature references *Syntactic and Structural Pattern Recognition* Horst Bunke, Alberto Sanfeliu, 1990 This book is currently the only one on this subject containing both introductory material and advanced recent research results It presents at one end fundamental concepts and notations developed in syntactic and structural pattern recognition and at the other reports on the current state of the art with respect to both methodology and applications In particular it includes artificial intelligence related techniques which are likely to become very important in future pattern recognition The book consists of individual chapters written by different authors The chapters are grouped into broader subject areas like Syntactic Representation and Parsing Structural Representation and Matching Learning etc Each chapter is a self contained presentation of one particular topic In order to keep the original flavor of each contribution no efforts were undertaken to unify the different chapters with respect to notation Naturally the self containedness of the individual chapters results in some redundancy However we believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters A unification of the spectrum of material covered by the individual chapters is provided by the subject and author index included at the end of the book

## Reviewing **Grammatical Inference**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Grammatical Inference**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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