What is Grammatical Inference?

...understood

- Grammatical Inference is both:
  - a technology
  - a development methodology ←

- Grammatical Inference is the process of using machine learning techniques to automate the development of spoken dialog systems.

  - any kind of speaker-independent system where grammar is of key importance
  - In particular building speech recognition systems for call center environments ←

Grammatical Inference Grammatical Inference

Rafael C. Carrasco,Jose Oncina

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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: 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 conferenceson the area of grammatical inference Previous meetings were held in Essex U K Alicante Spain Mo pellier 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 Gr matical inference the process of inferring grammars from given data is a eld that not only is challenging from a purely scienti c standpoint but also nds many applications in real world problems Despite the fact that grammatical inference addresses problems in a re tively narrow area it uses techniques from many domains and is positioned at the intersection of a number of di erent disciplines Researchers in grammatical inference come from elds as diverse as machine learning theoretical computer science computational linguistics pattern recognition and arti cial neural n works From a practical standpoint applications in areas like natural language quisition computational biology structural pattern recognition information trieval 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 rst time a software presentation was or nized at ICGI Short descriptions of the corresponding software are included in these proceedings too   **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** Colin de la Higuera,2010-04-01 The problem of inducing learning or

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Grammatical Inference: Algorithms and Applications Georgios Paliouras,Yasubumi Sakakibara,2005-01-11 **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** 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: 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 for Computational Linguistics Jeffrey Heinz,Colin de la Higuera,Menno van Zaanen,2022-06-01 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 Table of Contents List of Figures List of Tables Preface Studying Learning Formal Learning Learning Regular Languages Learning Non Regular Languages Lessons Learned and Open Problems Bibliography Author Biographies *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

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 Laurent Miclet,Colin de la Higuera,2014-01-15   *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 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

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