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Soggetti	Compilers (Computer programs) Artificial intelligence Machine theory Computer science Compilers and Interpreters Artificial Intelligence Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Parsing Without Grammar Rules -- Classification of Biological Sequences with Kernel Methods -- Regular Papers -- Identification in the Limit of Systematic-Noisy Languages -- Ten Open Problems in Grammatical Inference -- Polynomial-Time Identification of an Extension of Very Simple Grammars from Positive Data -- PAC-Learning Unambiguous NTS Languages -- Incremental Learning of Context Free Grammars by Bridging Rule Generation and Search for Semi-optimum Rule Sets -- Variational Bayesian Grammar Induction for Natural Language -- Stochastic Analysis of Lexical and Semantic Enhanced Structural Language Model -- Using Pseudo-stochastic Rational Languages in Probabilistic Grammatical Inference -- Learning Analysis by Reduction from Positive Data -- Inferring Grammars for Mildly Context Sensitive Languages in Polynomial-Time -- Planar

Languages and Learnability -- A Unified Algorithm for Extending
Classes of Languages Identifiable in the Limit from Positive Data --
Protein Motif Prediction by Grammatical Inference -- Grammatical
Inference in Practice: A Case Study in the Biomedical Domain --
Inferring Grammar Rules of Programming Language Dialects -- The
Tenjinno Machine Translation Competition -- Large Scale Inference of
Deterministic Transductions: Tenjinno Problem 1 -- A Discriminative
Model of Stochastic Edit Distance in the Form of a Conditional
Transducer -- Learning n-Ary Node Selecting Tree Transducers from
Completely Annotated Examples -- Learning Multiplicity Tree Automata
-- Learning DFA from Correction and Equivalence Queries -- Using
MDL for Grammar Induction -- Characteristic Sets for Inferring the
Unions of the Tree Pattern Languages by the Most Fitting Hypotheses
-- Learning Deterministic DEC Grammars Is Learning Rational Numbers
-- Iso-array Acceptors and Learning -- Poster Papers -- A Merging
States Algorithm for Inference of RFSA's -- Query-Based Learning of
XPath Expressions -- Learning Finite-State Machines from
Inexperienced Teachers -- Suprasymbolic Grammar Induction by
Recurrent Self-Organizing Maps -- Graph-Based Structural Data Mining
in Cognitive Pattern Interpretation -- Constructing Song Syntax by
Automata Induction -- Learning Reversible Languages with Terminal
Distinguishability -- Grammatical Inference for Syntax-Based Statistical
Machine Translation.

Sommario/riassunto

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.
