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Collana	Lecture Notes in Artificial Intelligence ; ; 1297
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Nota di contenuto	Knowledge discovery in databases: An overview -- On the complexity of some Inductive Logic Programming problems -- Inductive logic programming and constraint logic programming (abstract) -- Learning phonetic rules in a speech recognition system -- Cautious induction in inductive logic programming -- Generating numerical literals during refinement -- Lookahead and discretization in ILP -- Data mining via ILP: The application of Progol to a database of enantioseparations -- Part-of-speech tagging using Progol -- Maximum Entropy modeling with Clausal Constraints -- Mining association rules in multiple relations -- Using logical decision trees for clustering -- Induction of Slovene nominal paradigms -- Normal forms for inductive logic programming -- On a sufficient condition for the existence of most specific hypothesis in progol -- Induction of logic programs with more than one recursive clause by analyzing saturations -- A logical framework for graph theoretical decision tree learning -- Learning with abduction -- Systematic Predicate Invention in Inductive Logic

Programming -- Learning programs in the event calculus -- Distance between Herbrand interpretations: A measure for approximations to a target concept -- Realizing Progol by forward reasoning -- Probabilistic first-order classification -- Learning Horn definitions with equivalence and membership queries -- Using abstraction schemata in inductive logic programming -- Distance induction in first order logic -- Carcinogenesis predictions using ILP -- Discovery of first-order regularities in a relational database using ofine candidate determination -- Which hypotheses can be found with inverse entailment?.

Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Workshop on Inductive Logic Programming, ILP-97, held in Prague, Czech Republic, in September 1997. The volume presents revised versions of nine papers in long version and 17 short papers accepted after a thorough reviewing process. Also included are three invited papers by Usama Fayyad, Jean-Francois Puget, and Georg Gottlob. Among the topics addressed are various logic programming issues, natural language processing, speech processing, abductive learning, data mining, knowledge discovery, and relational database systems.
