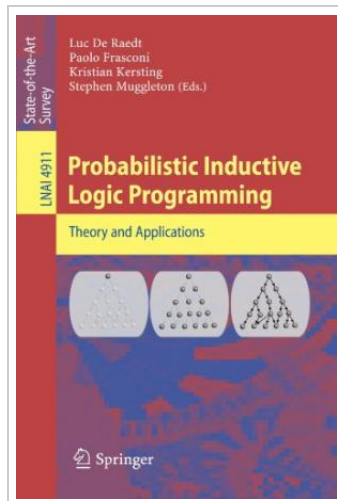




Probabilistic Inductive Logic Programming

By Luc De Raedt

Springer Berlin Heidelberg Mrz 2008, 2008. Taschenbuch. Condition: Neu. Neuware - One of the key open questions within artificial intelligence is how to combine probability and logic with learning. This question is getting an increased attention in several disciplines such as knowledge representation, reasoning about uncertainty, data mining, and machine learning simultaneously, resulting in the newly emerging subfield known as statistical relational learning and probabilistic inductive logic programming. A major driving force is the explosive growth in the amount of heterogeneous data that is being collected in the business and scientific world. Example domains include bioinformatics, chemoinformatics, transportation systems, communication networks, social network analysis, link analysis, robotics, among others. The structures encountered can be as simple as sequences and trees (such as those arising in protein secondary structure prediction and natural language parsing) or as complex as citation graphs, the World Wide Web, and relational databases. This book provides an introduction to this field with an emphasis on those methods based on logic programming principles. The book is also the main result of the successful European IST-FET project no. FP6-508861 on Application of Probabilistic Inductive Logic Programming (APRIL II, 2004-2007). This project was coordinated by the Albert-Ludwigs-University of Freiburg (Germany, Luc De Raedt) and the partners were Imperial College London (UK, Stephen Muggleton and Michael Sternberg), the Helsinki Institute of Information Technology (Finland, Heikki Mannila), the Università degli Studi di Firenze (Italy, Paolo Frasconi), and the Institut National de Recherche en Informatique et Automatique Rocquencourt (France, François Fages). It was concerned with theory, implementations and applications of probabilistic inductive logic programming. This structure is also reflected in the book. The book starts with an introductory chapter to Probabilistic Inductive Logic Programming by De Raedt and Kersting. In a second part, it provides a detailed overview of the most important probabilistic logic learning formalisms and systems. We are very pleased and proud that the scientists behind the key probabilistic inductive logic programming systems (also those developed outside the APRIL project) have kindly

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