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Prolog And Natural-Language Analysis (Center For The Study Of Language & Information - Lecture Notes)



Synopsis

Logic programming, an important new method of computer programming resulting from recent research in artificial intelligence and computer science, has proved to be especially appropriate for solving problems in natural-language processing. Prolog and Natural Language Analysis provides a concise and practical introduction to logic programming and the logic-programming language Prolog both as vehicles for understanding elementary computational linguistics and as tools for implementing the basic components of natural-language-processing systems. Throughout, the specific concepts and techniques are given rigorous theoretical justification and are demonstrated with working programs that show how Prolog can be used to solve actual problems in syntax, parsing, and semantic interpretation. These examples culminate in a simple working natural-language question-answering system written in Prolog. Extensive bibliographic notes point the reader to related research and further reading. Fernando C.N. Pereira is a senior computer scientist at SRI International's Artificial Intelligence Center and a consulting professor at Stanford University. His research on Prolog and natural-language processing underlies much recent work in logic grammars. Stuart Shieber is a researcher at the Center for the Study of Language and Information and a computer scientist at SRI International's Artificial Intelligence Center. His research on unification-based grammar formalisms bridges logic programming and linguistic theory. --This text refers to an out of print or unavailable edition of this title.

Book Information

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Customer Reviews

This book provides, in one volume, one of the best introductions to prolog programming and one of the best introductions to natural language processing. It is virtually unique in that it shows how to interface a natural language interface to a theorem prover. This book was far ahead of its time when

it was published, and it is still far ahead of most of the books written today on NLP.

This book has a series of prolog programs that lead the reader through the development of grammar parse trees for natural language. The trees can be ornamented with glosses from one language to another so that it can serve as the basis of elementary grammar-based machine translation experiments. The algorithms presented are very widely used (often without attribution) on academic websites about language processing in Prolog. It presents a language paradigm that everyone interested in text mining should know about. Very well done.

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