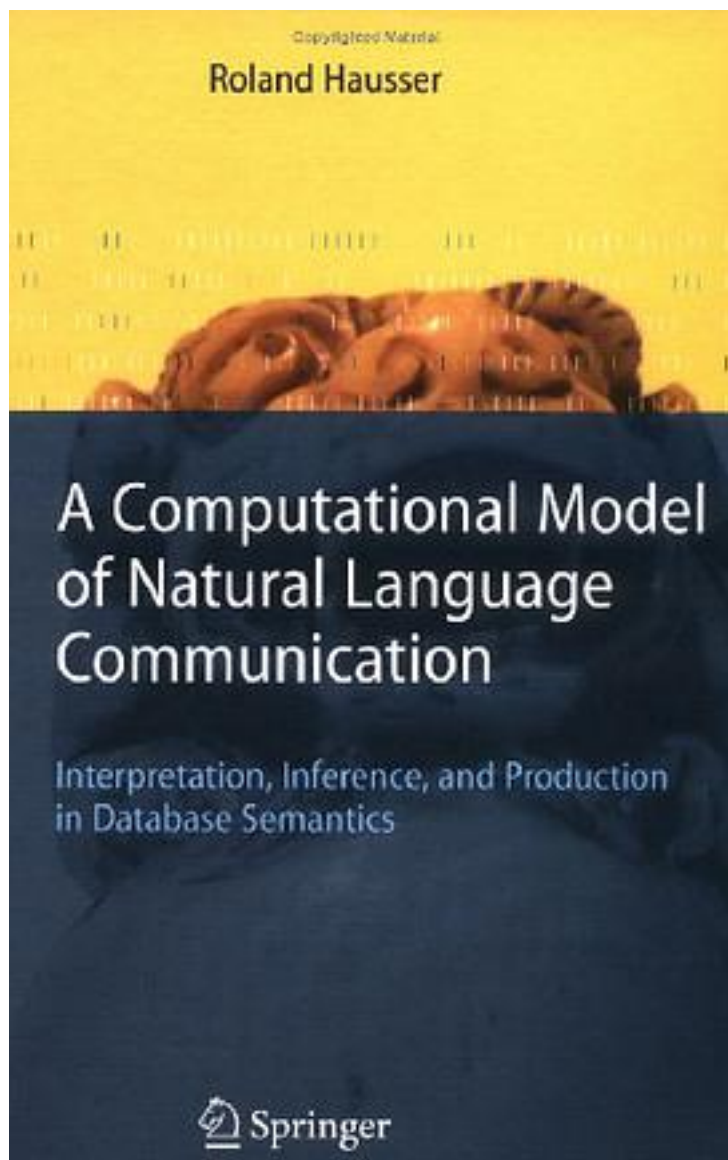


# A Computational Model of Natural Language Communication



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Everyday life would be easier if we could simply talk with machines instead of having to program them. Before such talking robots can be built, however, there must be a theory of how communicating with natural language works. This requires not only a grammatical analysis of the language signs, but also a model of the cognitive agent, with interfaces for recognition and action, an internal database, and an algorithm for reading content in and out. In Database Semantics, these ingredients are used for reconstructing natural language communication as a mechanism for transferring content from the database of the speaker to the database of the hearer.

Part I of this book presents a high-level description of an artificial agent which humans can freely communicate with in their accustomed language. Part II analyzes the major constructions of natural language, i.e., intra- and extrapropositional functor - argument structure, coordination, and coreference, in the speaker and the hearer mode. Part III defines declarative specifications for fragments of English, which are used for an implementation in Java.

The book provides researchers, graduate students and software engineers with a functional framework for the theoretical analysis of natural language communication and for all practical applications of natural language processing.

作者介绍:

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## 书评

Hausser教授计算语言学系列著作的最新成员。有关Hausser计算语言学的情况，已另文介绍。本书介绍了DBS（数据库语义学）的最新理论发展和实现。值得仔细研读。

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