



METADATA

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Abstract

The book is addressed to undergraduate and postgraduate students who study knowledge representation and reasoning using Descriptive Logic. In addition, it is addressed to professionals in the field of the Semantic Web who wish to acquire the necessary theoretical background and in-depth understanding of the scope, capabilities and limitations of representing and using semantic data and ontological knowledge on the Web. No prior knowledge of AI methods is required to understand the concepts presented, as the reader

is introduced, within the context of the book, to the necessary background in the basic technologies of knowledge representation and reasoning. In particular, the user finds in the proposed book material on the following topics: - Models of formal knowledge representation and reasoning - Syntax and semantics of Descriptive Logics - Reasoning in Descriptive Logics - Semantic access to data - Knowledge engineering (development of semantic data and terminologies) - Knowledge representation technologies on the Web.

