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motivations for the development of Description Logics (DL) as a formalism for representing knowledge, as well as some important basic notions underlying all systems that have been created in the DL tradition.

An Introduction to Description Logics

Description logics are knowledge representation formalisms that are highly relevant in computer science, knowledge representation and the semantic web. This is the first introductory textbook published on the subject, suitable for self-study by graduate students and as teaching material for university courses.

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Book description. Description logics (DLs) have a long tradition in computer science and knowledge representation, being designed so that domain knowledge can be described and so that computers can reason about this knowledge.

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Description Logics (DLs) have a long tradition in computer science and knowledge representation, being designed so that domain knowledge can be described and so that computers can reason about this knowledge. DLs have recently gained increased importance since they form the logical basis of widely used ontology languages, in particular the web ontology language OWL.

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To provide a thorough, concise introduction to Description Logics, covering the central topics and techniques of the field, namely theory and implementation, whilst sketching their use in applications. Target Audience. The book will be suitable as a basis for a graduate (or advanced undergraduate) course on description logics and as material for self-study, and its only prerequisite will be basic knowledge of computer science that should be covered in any standard computer science programme.

An introduction to Description Logics

In Description Logic, we assume that we want to describe some abstraction of some domain of interest, and that this abstraction is populated by elements. We use three main

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building blocks to describe these elements: • Concepts represent sets of elements and can be viewed as unary predicates.

A Basic Description Logic (Chapter 2) - An Introduction to ...

Description Logics (DL; Baader et al., 2003) is a popular knowledge representation formalism in the context of the Semantic Web. DL can be used for configuration knowledge representation, especially for the design of component type hierarchies (ontologies) and for coherence analysis.

Description Logics - an overview | ScienceDirect Topics

Introduction Description logics (DLs) are a family of

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knowledge representation languages that are widely used in ontological modelling. An important practical reason for this is that they provide one of the main underpinnings for the OWL Web Ontology Language as standardised by the World Wide Web Consortium (W3C). However, DLs have been used in

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This chapter provides an introduction to Description Logics as

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a formal language for representing knowledge and reasoning about it. It first gives a short overview of the ideas underlying...

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Introduction A description logic (DL) models concepts, roles and individuals, and their relationships. The fundamental modeling concept of a DL is the axiom—a logical statement relating roles and/or concepts. This is a key difference from the frames paradigm where a frame specification declares and completely defines a class.

An Introduction To Description Logic

Introduction to Logic 1 Course Description / Objectives (Core

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Curriculum) The objective of the course is to augment students' analytical and critical thinking through the study of formal logic The students will learn philosophical concepts and introductory tools for

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