

Concepts Ontologies And Knowledge Representation Springerbriefs In Computer Science

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Concepts Ontologies And Knowledge Representation

Uniform knowledge representation model, consisting of ontologies that are populated by concepts. The brain remains the first and best human knowledge storage locality.

(PDF) Concepts, Ontologies, and Knowledge Representation

A widespread general agreement is followed that states uniform knowledge representation should be achievable by using ontologies populated with concepts. A separate chapter is dedicated to each of the three introduced topics, following a uniform outline: definition, organization, and use.

Concepts, Ontologies, and Knowledge Representation ...

In Artificial Intelligence, knowledge representation studies the formalisation of knowledge and its processing within machines. Techniques of automated reasoning allow a computer system to draw conclusions from knowledge represented in a machine-interpretable form. Recently, ontologies have evolved in computer science as computational artefacts to provide computer systems with a conceptual yet computational model of a particular domain of interest.

Knowledge Representation and Ontologies | SpringerLink

Finally, ontologies are used to represent the real world in computer programmes. They can be regarded as mediators in knowledge representation by means of concepts (Jakus et al. 2013). ...

Concepts, Ontologies, and Knowledge Representation ...

Knowledge representation and reasoning (KR², KR&R) is the field of artificial intelligence (AI) dedicated to representing information about the world in a form that a computer system can utilize to solve complex tasks such as diagnosing a medical condition or having a dialog in a natural language. Knowledge representation incorporates findings from psychology about how humans solve problems ...

Knowledge representation and reasoning - Wikipedia

Firstly, a conceptualisation is an abstract view of particular real-world entities, events and the relationships between them. Formal refers to the fact that an ontology is a form of knowledge representation and has a formal software specification to represent such conceptualisations, for example, an ontology has to be machine-readable.

Ontologies | Knowledge Representation and Reasoning

In a nutshell, ontologies are frameworks for representing shareable and reusable knowledge across a domain. Their ability to describe relationships and their high interconnectedness make them the bases for modeling high-quality, linked and coherent data.

What are Ontologies and What are the Benefits of Using ...

In computer science and information science, an ontology encompasses a representation, formal naming and definition of the categories, properties and relations between the concepts, data and entities that substantiate one, many or all domains of discourse. More simply, an ontology is a way of showing the properties of a subject area and how they are related, by defining a set of concepts

and ...

Ontology (information science) - Wikipedia

Explicit means that the entities and relationships used, and the constraints on their use, are precisely and unambiguously defined in a declarative language suitable for knowledge representation. Shared means that all users of an ontology will represent a concept using the same or equivalent set of entities and relationships.

Abstract Concept - an overview | ScienceDirect Topics

The influence of the concept-centered view is a product not merely of the roots of information systems ontology in the field of knowledge representation. It has become entrenched also in virtue of the fact that much work of ontology has been concerned with representations of domains, such as commerce, law, or public administration, where we are

Beyond Concepts: Ontology as Reality Representation

In Artificial Intelligence, knowledge representation studies the formalisation of knowledge and its processing within machines. Techniques of automated reasoning allow a computer system to draw conclusions from knowledge represented in a machine-interpretable form.

3 Knowledge Representation and Ontologies

Ontology-based representation can be traced back to early frame systems [5], and both have several aspects or viewpoints that can be applied to the organization of a corpus of knowledge into an ontology. The Web Ontology Language (OWL) of Bechhofer et al. [6] has been used by a number of individuals to represent declarative knowledge about CR structures and relationships.

Declarative Knowledge - an overview | ScienceDirect Topics

The concept of ontology is considered to be the most promising basis for achieving the goals of the Semantic Web and is closely related to knowledge representation. In this section, we give a brief introduction to what ontology is and how it can be used as a basis to automate information understanding, search, and exchange.

Data Abstraction, Knowledge Representation, and Ontology ...

Lee "Concepts, Ontologies, and Knowledge Representation" por Grega Jakus disponible en Rakuten Kobo. Recording knowledge in a common framework that would make it possible to seamlessly share global knowledge remains an im...

Concepts, Ontologies, and Knowledge Representation eBook ...

In the world of knowledge modeling and organization, an ontology represents and models a domain bound by rules which determine what can be logically put together. True ontologies are modeled in triples, which include a subject, predicate, and object. Essentially, this mimics the structure of language and thought: subject, verb, object.

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