

Online Library
Formal Ontology
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Formal Ontology In Information Systems

In computer science and information science, an ontology encompasses a representation, formal

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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 ...

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(information science) - Wikipedia

That is, an ontology is a description (like a formal specification of a program) of the concepts and relationships that can exist for an agent or a community of agents. This definition is consistent with the usage of ontology as set-of-concept-definitions, but more general.

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What is an Ontology? - Stanford Knowledge Systems, AI ...

Information
represented in a
particular formal
ontology can be more
easily accessible to
automated information
processing, and how
best to do this is an
active area of research
in computer science.
The use of the formal
ontology here is
representational.

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Logic and Ontology
(Stanford
Encyclopedia of
Philosophy)

Information science
(also known as
information studies) is
an academic field
which is primarily
concerned with
analysis, collection,
classification,
manipulation, storage,
retrieval, movement,
dissemination, and
protection of

Online Library Formal Ontology In Information information.

Practitioners within and outside the field study the application and the usage of knowledge in organizations in addition to the interaction between people ...

Information science - Wikipedia

Proceedings of the International Conference on Formal Ontology in Information Systems (FOIS2001).

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ACM Press, 2001. [10]

Sowa, J. F. Conceptual Structures. Information Processing in Mind and Machine, Reading, MA: Addison Wesley, 1984.

...

Definition of Ontology | What is an Ontology ...

That is, where the method of ontology is the intuitive study of the fundamental properties, modes, and aspects of being, or of

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entities in general, and the method of modern symbolic logic is the rigorous construction of formal, axiomatic systems, formal ontology, the result of combining these two methods, is the systematic, formal, axiomatic ...

Ontology: Theory and History

Ontology engineering deals with ontology development process,

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ontology life-cycle, and the methods and methodologies for building ontologies. An ontology can be built from scratch, from an existing global or local ontology, from a corpus of information sources only, or from a combination of latter two approaches [25]. A simple methodology known as Skeletal Method, as suggested by Uschold and ...

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ScienceDirect Topics
Resource-Event-Agent
Enterprise (REA): An
ontology that is used to
model economic
aspects of e-business
frameworks (e.g. in
ebXML) and enterprise
information systems.
Science Ontology: A
modified version of the
KA² ontology
describing research-
related information.

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**Protege Ontology
Library - Protege
Wiki**

The National Center for Biomedical Ontology was founded as one of the National Centers for Biomedical Computing, supported by the NHGRI, the NHLBI, and the NIH Common Fund under grant U54-HG004028.

**Search | NCBO
BioPortal**

In computer science,
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an ontology is an information artifact built to organize and formally represent the shared terminology and associated semantics of a knowledge domain (Studer et al., 1998 ...

(PDF) What Is an Ontology? - ResearchGate

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and professional
communities with
superior specialist
information;
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Publisher Science,
Technology ...**

The Artificial-
Intelligence literature
contains many
definitions of an
ontology; many of
these contradict one
another. For the
purposes of this guide

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an ontology is a formal explicit description of concepts in a domain of discourse (classes (sometimes called concepts)), properties of each concept describing various features and attributes of the concept (slots (sometimes called roles or ...

What is an ontology and why we need it

Researchers in disciplines such as

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knowledge
engineering,
information systems
modeling, artificial
intelligence, formal and
computational
linguistics, information
retrieval, library
science, and
knowledge
management have
come to realize that a
solid foundation for
their research calls for
serious work in
ontology, understood
as a general theory ...

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Applied Ontology | IOS Press

Welcome to Ontobee!
Ontobee: A linked data server designed for ontologies. Ontobee is aimed to facilitate ontology data sharing, visualization, query, integration, and analysis. Ontobee dynamically dereferences and presents individual ontology term URIs to (i) HTML web pages for

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user-friendly web
browsing and
navigation, and to (ii)
RDF source code for
Semantic Web
applications.

Ontobee

These formal
descriptions allow the
integration of data
from multiple sources
in a software and
schema agnostic
fashion. ... It is
intended to be a
common language for

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domain experts and implementers to formulate requirements for information systems and to serve as a guide for good practice of conceptual modelling.
... This base ontology is
...

Home | CIDOC CRM

The 27th International Conference on Natural Language & Information Systems will be held at the

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Universitat Politècnica
de València, Spain.
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Although we plan to
organize the
conference in an hybrid
mode in order to allow
the attendance to
everybody, we would
be delighted to host
you in Valencia and
count on you to have a
fruitful and enjoyable
conference.

**NLDB - International
Conference on
Natural Language ...**

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Ontology is the theory of reality while epistemology is the knowledge or information out there and how it can be utilised to prove reality. Cite 1
Recommendation

What is the difference between Ontology and Epistemology?

The OWL Web Ontology Language is designed for use by

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applications that need to process the content of information instead of just presenting information to humans. OWL facilitates greater machine interpretability of Web content than that supported by XML, RDF, and RDF Schema (RDF-S) by providing additional vocabulary along with a formal semantics.

OWL Web Ontology

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Language Overview

formal/14-04-06 Full
list of specifications
This page provides a
summary of OMG
specifications that
have either been
formally published or
are in the finalization
process.

The OMG® Specifications Catalog

Ontology_term is
reserved for
associations to

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ontologies, such as the Gene Ontology. Dbxref is used for all other cross references. While there is no firm boundary line between these two concepts, curators tend to treat ontology associations differently and hence ontology terms have been given their own reserved attribute label.

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