Resource Summary Report

Generated by NIF on Apr 18, 2025

OWL API

RRID:SCR_005734
Type: Tool

Proper Citation

OWL API (RRID:SCR_005734)

Resource Information

URL: http://owlapi.sourceforge.net/

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Description: The OWL API is a Java API and reference implementation for creating, manipulating and serializing OWL Ontologies. The latest version of the API is focused towards OWL 2. The OWLAPI underpins ontology browsing and editing tools and platforms such as SWOOP and Protege4. Note that this API, or any other OWL-based API, can be used without an integrated OWL parser if you download a pre-converted OWL file generated from OBO. See OBO Ontologies List for all OBO ontologies converted to OWL (we do not list the full complement of OWL-based APIs here, only those of direct relevance to GO). The OWL API includes the following components: * An API for OWL 2 and an efficient in-memory reference implementation * RDF/XML parser and writer * OWL/XML parser and writer * OWL Functional Syntax parser and writer * Turtle parser and writer * KRSS parser * OBO Flat file format parser * Reasoner interfaces for working with reasoners such as FaCT++, HermiT, Pellet and Racer Platform: Windows compatible, Mac OS X compatible, Linux compatible, Unix compatible

Abbreviations: OWL API

Synonyms: The OWL API, OWLAPI

Resource Type: source code, software resource

Keywords: ontology, owl, api, java, software library, parser, writer

Funding:

Availability: Open unspecified license - Free for academic use; available under either the LGPL or Apache Licenses

Resource Name: OWL API

Resource ID: SCR_005734

Alternate IDs: nlx_149195

Record Creation Time: 20220129T080232+0000

Record Last Update: 20250412T054959+0000

Ratings and Alerts

No rating or validation information has been found for OWL API.

No alerts have been found for OWL API.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Wu J, et al. (2024) Eliminating ontology contradictions based on the Myerson value. Heliyon, 10(16), e35963.

Alghamdi SM, et al. (2022) Contribution of model organism phenotypes to the computational identification of human disease genes. Disease models & mechanisms, 15(7).

Razzaq MA, et al. (2017) mlCAF: Multi-Level Cross-Domain Semantic Context Fusioning for Behavior Identification. Sensors (Basel, Switzerland), 17(10).

Gonçalves RS, et al. (2017) An ontology-driven tool for structured data acquisition using Web forms. Journal of biomedical semantics, 8(1), 26.

Boeker M, et al. (2016) TNM-O: ontology support for staging of malignant tumours. Journal of biomedical semantics, 7(1), 64.

Przyby?a P, et al. (2016) Text mining resources for the life sciences. Database : the journal of biological databases and curation, 2016.

Moreau T, et al. (2015) Ontology-based approach for in vivo human connectomics: the medial Brodmann area 6 case study. Frontiers in neuroinformatics, 9, 9.

Henkel R, et al. (2015) Combining computational models, semantic annotations and simulation experiments in a graph database. Database : the journal of biological databases and curation, 2015.

Hoehndorf R, et al. (2015) The role of ontologies in biological and biomedical research: a functional perspective. Briefings in bioinformatics, 16(6), 1069.

Oellrich A, et al. (2014) Linking tissues to phenotypes using gene expression profiles. Database : the journal of biological databases and curation, 2014, bau017.

Balhoff JP, et al. (2013) A semantic model for species description applied to the ensign wasps (hymenoptera: evaniidae) of New Caledonia. Systematic biology, 62(5), 639.

Mikroyannidi E, et al. (2012) Analysing Syntactic Regularities and Irregularities in SNOMED-CT. Journal of biomedical semantics, 3(1), 8.

Jupp S, et al. (2012) Logical Gene Ontology Annotations (GOAL): exploring gene ontology annotations with OWL. Journal of biomedical semantics, 3 Suppl 1(Suppl 1), S3.

Xiang Z, et al. (2010) OntoFox: web-based support for ontology reuse. BMC research notes, 3, 175.

Antezana E, et al. (2009) The Cell Cycle Ontology: an application ontology for the representation and integrated analysis of the cell cycle process. Genome biology, 10(5), R58.