Resource Summary Report

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Semantic Web Applications in Neuromedicine (SWAN) Ontology

RRID:SCR_000697
Type: Tool

Proper Citation

Semantic Web Applications in Neuromedicine (SWAN) Ontology (RRID:SCR_000697)

Resource Information

URL: http://www.w3.org/TR/hcls-swan/

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Description: The SWAN (Semantic Web Applications in Neuromedicine) ontology is an ontology for modeling scientific discourse and has been developed in the context of building a series of applications for biomedical researchers, as well as extensive discussions and collaborations with the larger bio-ontologies community. Developing cures for highly complex diseases, such as neurodegenerative disorders, requires extensive interdisciplinary collaboration and exchange of biomedical information in context. Our ability to exchange such information across sub-specialties today is limited by the current scientific knowledge ecosystem's inability to properly contextualize and integrate data and discourse in machine-interpretable form. This inherently limits the productivity of research and the progress toward cures for devastating diseases such as Alzheimer's and Parkinson's. The SWAN ontology is organized in three types of modules: * basic: basic modules represent the ontology building blocks. They cover topics that are general enough to be included in every ontology distribution. The current basic modules are: ** collections ** provenance, authoring and versioning (PAV) ** discourse relationships ** FOAF (in OWL-DL) ** SKOS (in OWL-DL) ** qualifiers ** scientific discourse * extension: extensions modules are covering topics (a) that can be related only to some fields of science (b) for which there could be more than one implementation (c) for which a temporary solution has been provided and it is possible to forecast its substitution. The current extensions modules are: ** life science entities ** citations ** qualifiers extension modules * distribution: distributions are modules that are including all the basic modules and extensions necessary for serving a specific domain (i.e. the SWAN ontology for the Alzheimer knowledge base or the generic distribution that is not binded to any specific scientific domain). The current available distributions are: ** swan-

scientific-discourse ** swan-alzheimer

Abbreviations: SWAN Ontology

Synonyms: Semantic Web Applications in Neuromedicine Ontology

Resource Type: ontology, controlled vocabulary, narrative resource, data or information resource

Defining Citation: PMID:18583197

Keywords: scientific discourse, biomedical research, semantics, owl, semantic web, biomedicine, swan, alzheimer disease, knowledgebase, hypothesis/claim-based representation of the rhetorical structure of a scientific paper

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alz.org ;
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Resource Name: Semantic Web Applications in Neuromedicine (SWAN) Ontology

Resource ID: SCR_000697

Alternate IDs: nlx_149502

Record Creation Time: 20220129T080203+0000

Record Last Update: 20250416T063226+0000

Ratings and Alerts

No rating or validation information has been found for Semantic Web Applications in Neuromedicine (SWAN) Ontology.

No alerts have been found for Semantic Web Applications in Neuromedicine (SWAN) Ontology.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.