

Resource Summary Report

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OntoNeuroLOG

RRID:SCR_008957

Type: Tool

Proper Citation

OntoNeuroLOG (RRID:SCR_008957)

Resource Information

URL: http://neurolog.i3s.unice.fr/public_namespace/ontology

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Description: An ontology for neuroimaging or medical imaging studies based on DOLCE (Descriptive Ontology for Linguistic and Cognitive Engineering), as the foundational ontology. Detailed description from web: Our aim is the design of a common semantic model providing a unified view on all data and tools to be shared between NeuroLOG partners. For this purpose, we built a multi-layered and multi-components formal ontology. We chose a design framework that structures the ontology at different levels of abstraction while respecting common conceptualization choices. At the highest level is a top-level ontology that includes abstract concepts and relationships valid across domains. We adopted DOLCE (Descriptive Ontology for Linguistic and Cognitive Engineering), as the foundational ontology. We then added Core ontologies, which provide generic, basic and minimal concepts and relations in a specific domain. By minimal we mean that core ontologies should include only the most reusable and widely applicable categories. These kinds of ontologies are essential for sharing intended meaning between different domains. We adopted I& DA (Information and Discourse Acts), a core ontology initially built for classifying documents as a function of their content. We use it to model medical images, which we consider as types of documents. Participant Roles is the core ontology we use to describe the modes of image participation in data processing. I& DA and Participant Roles are built according to DOLCE ontological commitments. On the basis of these two layers, we constructed our Domain ontology dedicated to conceptualizing a specific domain, in this case neuroimaging. Obviously, large domains such as neuroimaging can be divided into sub-domains for the sake of modularization.

Synonyms: Onto Neuro Log, OntoNeuro LOG

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

Defining Citation: [PMID:18440282](#)

Keywords: neuroimaging, medical imaging, dicom term

Resource Name: OntoNeuroLOG

Resource ID: SCR_008957

Alternate IDs: nlx_151929

Record Creation Time: 20220129T080250+0000

Record Last Update: 20260731T042756+0000

Ratings and Alerts

No rating or validation information has been found for OntoNeuroLOG.

No alerts have been found for OntoNeuroLOG.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.