

Landscape Analysis of Domain Ontologies

Identifying gaps, needs and requirements

Yann Le Franc, PhD / e-Science Data Factory



ONTO BATA COMMONS Objectives of the task

Understand the current landscape of ontologies in Material Science and Manufacturing

Analyze existing ontologies to understand diversity, coverage, overlap, maturity, existing gaps, common practices, ...

Create a unique resource for domain experts to find and reuse existing semantic artefacts (ontologies, controlled vocabularies, ...)



Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146





Metadata for OntoCommons ontology catalogue

This survey is oriented to people who are aware of any ontology that could be useful for materials, manufacturing or related domains.

Our final goal is to develop an ontology catalogue in order to provide the materials and manufacturing communities with the most suitable ontologies in this area. In addition the catalogue also contains general domain ontologies frequently used across domains.

The estimated time required to complete the questionnaire is of 10 minutes. Once the form about an ontology is submitted it will be manually assessed and automatically processed. After this, the ontology will be included in the future OntoCommons Catalogue. Please note that there is a manual component in the process, therefore the on-line catalogue will not be updated immediately after the submission.

The questionnaire does not include any personal question and the confidentiality of the answers will be preserved. We only ask for an email address just in case you want to obtain information about the results we produce.

This guestionnaire is being performed in the context of the OntoCommons HORIZON2020 project.

If you have any question or comment about the questionnaire contact ontocommons.registry[at]delicias.dia.fi.upm.es

The name given to the ontology.

URI *

The URI of the ontology.

Description *

A free-text account of the ontology.



Datasets

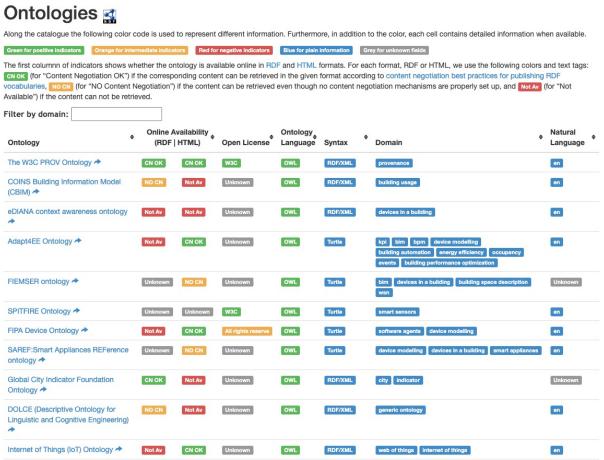
Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146

Use the results to publish an ontology catalog

smartcity.linkeddata.es

On the Semantic Web, ontologies define the concepts and relationships used to describe a given domain and annotate data about it. In the READY4SmartCities FP7 CSA we are collecting ontologies about smart cities, energy and other related fields. Here you can find the list of ontologies we have identified so far. You can also propose ontologies to be included in the catalogue, either through a detailed form if you have more time to fill the required data or through a very short form.





ONTO COMMONS Collecting domain ontologies COMMONS Collecting domain ontologies

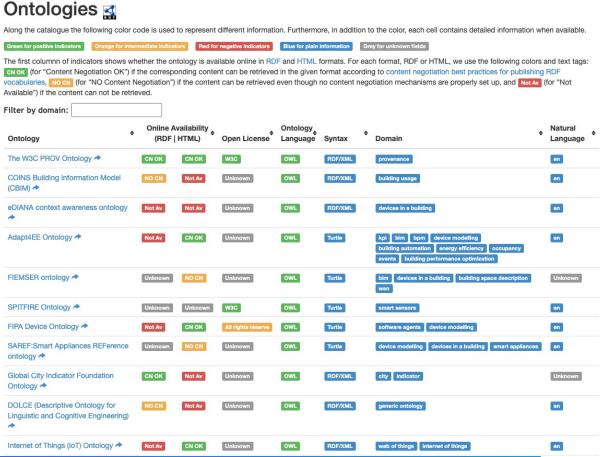
Datasets

Collecting information from domain experts using a dedicated survey

https://ontocommons.eu/node/146

Use the results to publish an ontology catalog

Material Science and Manufacturing Ontology Catalog





ONTO INTO INTO INTO COMMONS Analysing the landscape COMMONS Analysing the landscape

Alignment with FAIR principles: evaluate against the recommendations proposed by FAIRsFAIR on FAIR Semantics

Doi: 10.5281/zenodo.4314321

Domain criteria (coverage, overlap, semantic gaps, usage, ...)

Ontology Engineering criteria (format, use of Top Level Ontologies,...)



Analysing survey results (internal and external respondants)

Organising dedicated expert workshops



Thank you for your attention!

Questions?

FOLLOW US ON:





ylefranc@esciencefactory.com

