

The Metadata Ecosystem of DataID

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Abstract

The rapid increase of data produced in a data-centric economy emphasises the need for rich metadata descriptions of datasets, covering many domains and scenarios. While there are multiple metadata formats, describing datasets for specific purposes, exchanging metadata between them is often a difficult endeavour. More general approaches for domain-independent descriptions often lack the precision needed in many domain-specific use cases.

This SDSVoc submission introduces the multilayer ontology of DataID, providing semantically rich metadata for complex datasets. In particular, we focus on the extensibility of its core model and the interoperability with foreign ontologies and other metadata formats.

As a position paper for the Smart Descriptions & Smarter Vocabularies workshop of the W3C we forward our paper about the multi-layered metadata model called DataID, which we published recently at the 10th International Conference on Metadata and Semantics Research.

https://svn.aksw.org/papers/2016/MSOR_DataID2/public.pdf

Of particular interest for this workshop and an introduction to DataID are sections 3,4 and 5.

We are also in the process of preparing a W3C submission of the core ontology of this metadata ecosystem: DataID core. A preview of this submission is also available.

<http://vmdbpedia.informatik.uni-leipzig.de/temporary/html/dataid-submission-pre.html>