
Linguistik Portal and Linked Open Data: Ontological Modeling of Linguistic Terminology

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The Linguistik portal (www.linguistik.de) is a hub for linguistically relevant scientific information. Recently, a connection between the portal and the Linguistic Linked Open Data (LLOD) cloud has been established and a new LLOD-based search function has been developed (Chiarcos et al., 2016).

Linguistic terminology plays an important role for the implementation: The thesaurus of the Bibliography of Linguistic Literature (BLL Thesaurus) serves as a connecting point. Links between the BLL Thesaurus and terminological repositories in the cloud provide the basis of the LLOD search. Since valid links can be established only if specific formal and conceptual requirements are met, the BLL Thesaurus has to undergo an ontological re-modeling.

Based on an automated SKOS conversion, a full-fledged OWL model is being manually developed and annotated. The thesaurus branches *Syntax* and *Morphology* have already been modeled and linked to the Reference Model of the Ontologies of Linguistic Annotations OLIA (Chiarcos & Sukhareva, 2015). We are working currently on the ontological modeling of the language-related subject terms and their mapping to appropriate LLOD vocabularies.

We demonstrate how the resulting multiple layers of interlinked ontologies facilitate conceptual interoperability between otherwise heterogeneous language resources.

References: • Chiarcos, C., Fäth, C., Renner-Westermann, H., Abromeit, F., Dimitrova, V. (2016): Linguistik: Building the Linguist's Pathway to Bibliographies, Libraries, Language Resources and Lined Data. In: Proceedings of LREC2016, 4463-4471 • Chiarcos, C. & M. Sukhareva (2015): OLIA – Ontologies of Linguistic Annotation. Semantic Web Journal 6(4), 379-386.