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The Challenges of Linked Open Data Semantic Enrichment, Discovery, and Dissemination

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Linked open data is crucial for Semantic Web development due to the ability to provide both unambiguous computer interpretation and human understanding of information. Despite the active growth, including the variety of standards, methods, and tools for preparing linked data (LD), there is the gap between the idea and its ubiquity. It is still not easy to discover LD, difficult to link them, and rather hard to use for collaborative processing. The reuse of LD as well as the general implementation FAIR principles, designed to counteract semantic chaos and provide information sharing remains the most challenging. In this paper, the authors highlight the insufficiency of basic semantic standards (e.g. JSON-LD and schema.org stack) and consider the possibility of semantic enrichment of data by the creation of an open LD interpretation environment. Special attention is given to technical solutions aimed at improving the LD exploring capabilities.

Summary

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