

Title:
Exploitation of Linked Data for sharing public agreements data

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Abstract:
The objective of the thesis is to explore the possibilities of using Linked Data principles for publishing and sharing data on contracts of public institutions and their connections to related data in the public domain (eg. Business and trade register, register of contracts, etc.). Thesis presents the entire process of opening up contracts. Defines a data standard for open contracts and proposes an ontology for the publication of data on contracts and their interconnections. Furthermore, it designs and implements a platform for publishing contracts. The first part of the platform is a conversion module enabling the conversion of contracts stored in relational databases into RDF form. Employed are R2RML mapping techniques. The second part is a uniform repository that downloads data on contracts in Linked Data format. The third part is a web application that will make the data on contracts available to end users.

Keywords:
Contract, Open Data, Linked Data, RDF, JSON-LD, R2RML, SPARQL