

FAIR principles and ontologies for the Semantic Web: the meeting point

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Abstract

On the one hand, we are nowadays witnessing a wide adoption of ontologies for many different purposes and in many different contexts, like industry and research, and in domains ranging from digital humanities, biology, chemistry or medicine. On the other hand, since its inception in 2016, the FAIR (Findable, Accessible, Interoperable, Reusable) data principles have gained an increasing importance in the context of research data management. As part of research outputs, ontologies should be treated as other research artefacts, such as data, software, methods, etc.; following the same principles used to make them findable, accessible, interoperable and reusable (FAIR) to others. However, not much attention has been paid so far on how to publish ontologies following the FAIR principles. This talk will focus on the technical and social needs for publishing FAIR ontologies on the web building on the available initiatives and systems to analyze the gaps and open challenges.

Short bio

Dr. María Poveda-Villalón is an assistant professor at the Artificial Intelligence Department of the Universidad Politécnica de Madrid and is also part of the Ontology Engineering Group research lab. Her research activities focus on Ontological Engineering, Ontology Evaluation, Knowledge Representation and the Semantic Web. Previously she finished her studies in Computer Science (2009) by Universidad Politécnica de Madrid, and then she moved to study the Artificial Intelligence Research Master finished in 2010 in the same university. She has worked in the context of Spanish research projects as well as in European projects such as ETSI STF for SAREF extensions, BIMERR (H2020-820621), VICINITY (H2020-688467), READY4SmartCities (FP7-608711), and NeOn (FP6-027595). She has contributed to the organization of the “Linked Data in Architecture and Construction Workshop” since 2015 edition, the “13th OWL: Experiences and Directions Workshop and 5th OWL reasoner evaluation workshop” in 2016, the “Linked Energy Data Vocamp” in 2015 and the “Catching up with ontological engineering: To git-commit and beyond” tutorial at EKAW2018. Finally, she is part of the W3C Web of Things Working Group.