

Characterising RDF data sets

Por: [Fernandez, JD](#) (Fernandez, Javier D.)^[1]; [Martinez-Prieto, MA](#) (Martinez-Prieto, Miguel A.)^[2]; [Redondo, PD](#) (de la Fuente Redondo, Pablo)^[2]; [Gutierrez, C](#) (Gutierrez, Claudio)^[3]

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Abstract

The publication of semantic web data, commonly represented in Resource Description Framework (RDF), has experienced outstanding growth over the last few years. Data from all fields of knowledge are shared publicly and interconnected in active initiatives such as Linked Open Data. However, despite the increasing availability of applications managing large-scale RDF information such as RDF stores and reasoning tools, little attention has been given to the structural features emerging in real-world RDF data. Our work addresses this issue by proposing specific metrics to characterise RDF data. We specifically focus on revealing the redundancy of each data set, as well as common structural patterns. We evaluate the proposed metrics on several data sets, which cover a wide range of designs and models. Our findings provide a basis for more efficient RDF data structures, indexes and compressors.

Palabras clave

Palabras clave de autor: [Linked data](#); [RDF features](#); [RDF metrics](#); [RDF structure](#)

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Información del autor

Dirección para petición de copias: Fernandez, JD (autor para petición de copias)

- + Vienna Univ Econ & Business, Inst Informat Business, Bldg D2, Entrance C, 2nd Floor, Welthandelspl 1, A-1020 Vienna, Austria.

Direcciones:

- + [1] Vienna Univ Econ & Business, Vienna, Austria
- + [2] Univ Valladolid, Dept Comp Sci, Valladolid, Spain
- + [3] Univ Chile, Dept Comp Sci, CIWS, Santiago, Chile

Direcciones de correo electrónico: javier.fernandez@wu.ac.at

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