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OntoMath^{PRO} ontology: A linked data hub for mathematics

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Abstract

© Springer International Publishing Switzerland 2014. In this paper, we present an ontology of mathematical knowledge concepts that covers a wide range of the fields of mathematics and introduces a balanced representation between comprehensive and sensible models. We demonstrate the applications of this representation in information extraction, semantic search, and education. We argue that the ontology can be a core of future integration of math-aware data sets in the Web of Data and, therefore, provide mappings onto relevant datasets, such as DBpedia and ScienceWISE.

Keywords

Linked Open Data, Mathematical knowledge, Ontology engineering