

Transformation of object-oriented code into semantic web using Java annotations



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This paper deals with difficulties occurring during transformation of schema and data from an object-oriented code to a semantic web representation (RDF, OWL). The authors describe differences in semantic expressivity between the object-oriented approach and the semantic web approach and look for the ways to fill this semantic gap. Then some existing approaches with their difficulties are introduced and a preliminary idea using Java annotations is proposed. Java annotations add missing semantic information into Java code, which is consequently processed by the proposed framework and serialized into output semantic web structure (OWL).

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