OntoUML and UFO-A for Software Engineering

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Abstract: OntoUML is an extension to the well-known notation of UML by ontology-oriented conceptual modeling aspects. The OntoUML diagrams offer higher expressivity for conceptual modeling thanks to a finer categorization and definition of entity types. This paper summarizes basic principles and concepts of OntoUML in the perspective of using OntoUML for development of information systems. The advantages of higher expressivity of OntoUML are illustrated by an example. Other aspects like transformation to an implementation model and further development of OntoUML are discussed. Difficulties for wider spread of OntoUML in the professional community are also discussed.

Keywords: ontological modeling, conceptual modeling, OntoUML, software engineering, information system development.

JEL Classification: C63, C80