

Semantic Technologies in a Decision Support System

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The aim of our work is to design a decision support system based on ontological representation of domain(s) and semantic technologies. Specifically, we consider the case when Grid / Cloud user describes his/her requirements regarding a “resource” as a semantic expression (based on domain capturing ontology), while the instances of (the same) ontology represent available resources.

The goal is to help the user to find the best option with respect to his/her requirements, while remembering that user’s knowledge may be “limited.” In this context, we discuss multiple approaches based on semantic data processing, which involve different “forms” of user interaction with the system.