
Reference: Knowledge Engineering – EOT (QSE: KE)

Topics: End-user ontology tools

LVA-Type: Praktikum, Bakk-/Diplomarbeit

Start: Ab sofort

End: Nach Vereinbarung

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Background

Knowledge engineering in the the context of multi-disciplinary engineering environments (e.g., industrial automation systems) enables data collection, integration, management, querying and visualization of various data sources and formats. For knowledge engineering and data integration, we use ontology as the data storage.

We already have tools for several parts of knowledge engineering, but of course the improvement of current tools (e.g., enhancing the efficiency of data transformer) and additional tools (e.g., Ontology data management) is always important for us.

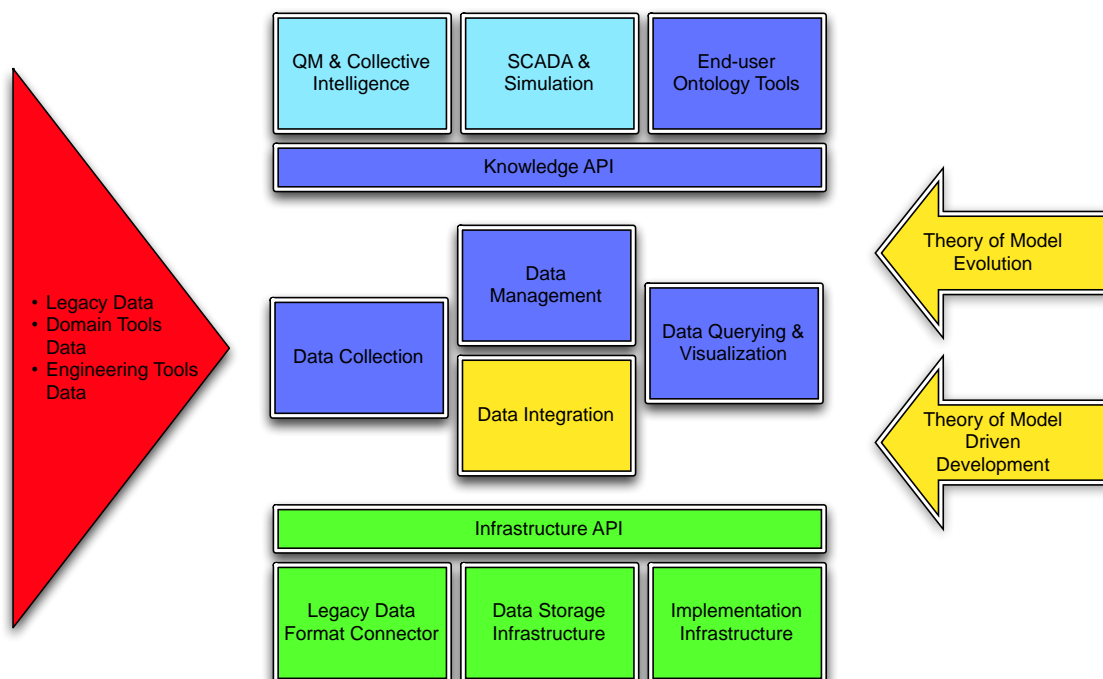


Figure 1: Overall picture of the Knowledge Engineering areas (dark blue) in regards with other reseach areas in CDL-Flex lab.

Tasks

End-user ontology tools

- a. The goal is the concept and prototype development of End-user Ontology tools with the emphasis on the user experience.
- b. Using our current Knowledge API in an application, e.g., a glossary, and work with other experts to enhance the API further.

Experience and skills needed

While the experience and skill that is needed will depend on the specific task(s) that you choose, the following preconditions are needed/recommended.

- Java.
- Interest in user experience/interface design.
- Basic understanding of and interest in ontology
- Basic understanding of data transformation.