

Bachelor Thesis

Knowledge Refinement in Expressive Description Logics

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Description Logics

Expressive Description Logics

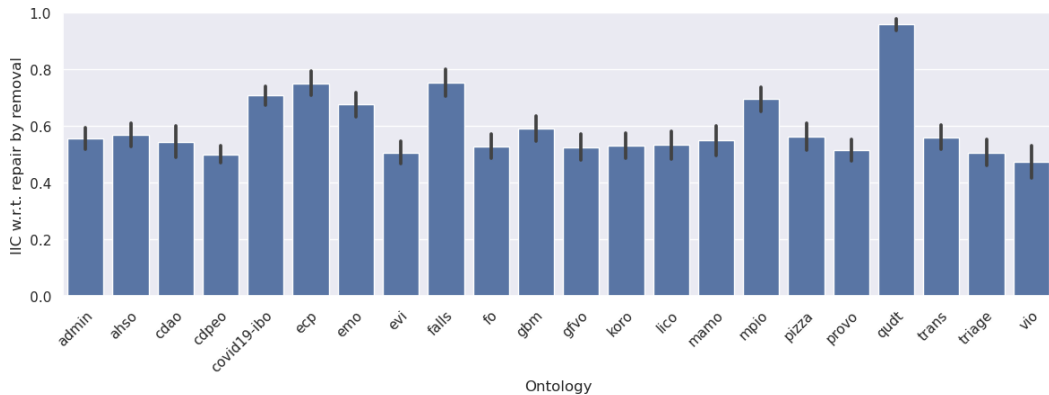
Knowledge Refinement in Expressive Description Logics

Motivation and Thesis Goals

Challenges in Weakening Expressive Description Logics

Evaluating Axiom Weakening for Ontology Repair

Evaluation Results



A Protégé Plugin supporting these Techniques

Outcomes of the Thesis

- ▶ Extended the axiom weakening operator to $SR\mathcal{OIQ}$ and showed that the weakening maintains the necessary constraints
- ▶ Evaluated the proposed approach on real-world ontologies
- ▶ Developed a Protégé plugin for applying these techniques

Future Outlook

