Inconsistencies in Hybrid Knowledge Bases

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Description of Research Area

- **Hybrid Knowledge Bases**: DL ontology + nonmonotonic rules

![Diagram of Hybrid Knowledge Base](image.png)

**Domain of Interest**

**Hybrid Knowledge Base**
Combines different formalisms
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- **Inconsistencies** often arise as a result of combining formalisms
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**In this thesis**: Approaches to dealing with inconsistencies in HKBs

- Focus on DL-programs [Eiter et al., 2008] (loose coupling)
- Repair semantics and its complexity
- Algorithms for repair answer set computation
- Implementation within DLVHEX framework
- Thorough evaluation on a set of benchmarks