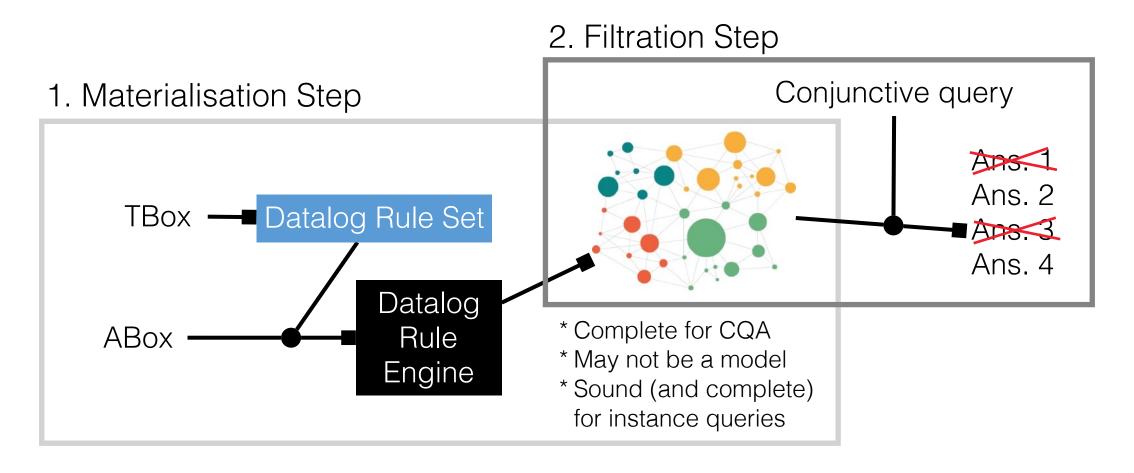
The Combined Approach to Query Answering in Horn-ALCHOIQ

David Carral, Irina Dragoste, and Markus Krötzsch In Principles of Knowledge Representation and Reasoning 2018



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Contributions

- 1. First combined approach for a non-tractable DL fragment
- 2. Worst-case optimal for standard reasoning and CQ answering for Horn- $\mathcal{ALCHOIQ}$ and \mathcal{EL}
- 3. Develop an implementation to solve standard reasoning tasks
- 4. Conduct an empirical evaluation that shows performance gains over state-of-the-art DL reasoners