

## Towards a Concurrent Approximate Description Logic Reasoner

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Include Cardinality & Compliment ■

expressivity in

**ELK Style** 

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Language Weakening Common OWL 2 DL Reasoners Eg. Pellet, JFACT, Hermit Impractical against Large scale ontology. Tradeoff b/w DL Expressivity and Reasoner Efficiency Con-Currency

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## Approximate Reasoner

Eg. TROWL
Soundness
preserving
approximate TBOX
reasoning.

## Concurrent Reasoner

Eg. ELK

Take advantage of available multiple processors/cores.

Strategy

Light Weight

Concurrent
Approximate
Reasoner

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Soundness
preserving and LightWeight Concurrent
TBOX approximate
reasoning.