

## Semantic, Logical and Statistical Reasoning with Knowledge Graphs

### Disclosure Number

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### Technology Summary

Our invention is a combination of hardware and software that loads knowledge graphs into a in-memory database processing system and reasons with data represented as RDF graphs, ontologies, triples, etc. Traditionally, most intelligent systems can only do one form of reasoning - logical, statistical or semantic. Our invention is able to do all three. We are able to apply our reasoning framework to (i) generate new hypothesis when new datasets are collected, integrated to existing knowledge and (ii) filter massive amounts of textual information in a smart way to focus the user on important new associations for discovery.

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