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based Reasoning"; "Forward Chaining"; "OWL 2 RL/RDF Scalability";
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Inferencing"; "Optimising the Assertional Program"; "Merging
Equivalent T-ground Rules"; "Rule Index"; "Rule Saturation";
"Preliminary Performance Evaluation"; "Towards Linked Data
Reasoning"; "A-linear" OWL 2 RL/RDF"
"Authoritative Reasoning"; "Distributed Reasoning"; "Linked Data
Reasoning Evaluation"; "Related Work"; "Scalable/Distributed
Reasoning"; "Web Reasoning"; "Critical Discussion and Future
Directions"; "Annotated Reasoning"; "Generalised Annotated
Programs"; "Use-case Annotations"; "Blacklisting"; "Authoritative
Analysis"; "Triple Ranks"; "Formal Annotation Framework";
"Annotation Domains"; "(Specialised) Annotated Programs"; "Least
Fixpoint and Decidability"; "Seeding Annotations"; "T-split Annotated
Programs"; "Annotated Reasoning Tasks"; "Constraints"
"Annotated Linked Data Reasoning"; "Ranking Triples:
Implementation/Evaluation"; "Reasoning:
Implementation/Evaluation"; "Repair: Implementation/Evaluation";
"Related Work"; "Annotated Reasoning"; "Inconsistency Repair";
"Critical Discussion and Future Directions"; "Consolidation"; "OWL
Equality Semantics"; "Corpus: Naming Across Sources"; "Base-line
Consolidation"; "High-level approach"; "Distributed approach";
"Evaluation"; "Extended Reasoning Consolidation"; "High-level
approach"; "Distributed approach"; "Evaluation"
"Statistical Concurrency Analysis (Synopsis)"

Sommario/riassunto

Linked Data publishing has brought about a novel "Web of Data": a wealth of diverse, interlinked, structured data published on the Web. These Linked Datasets are described using the Semantic Web standards and are openly available to all, produced by governments, businesses, communities and academia alike. However, the heterogeneity of such data - in terms of how resources are described and identified - poses major challenges to potential consumers. Herein, we examine use cases for pragmatic, lightweight reasoning techniques that leverage Web vocabularies (described in RDFS and OWL) to better i
