

# Editorial

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Issue 5 of the year 2016 contains five papers: two regular research papers, a dataset description paper, a tool/system report and an ontology design pattern description.

The first paper in this issue, *OntoPedigree: Modelling Pedigrees for traceability in supply chains* by Monika Solanki and Christopher Brewster is an ontology design pattern description. It presents an ontological model for capturing event based traceability information of artifacts as they move along supply chains. The model is conveyed as an ontology design pattern, i.e. as a type of reusable module for ontology engineering [1].

The second paper in this issue, *A Fine-Grained Evaluation of SPARQL Endpoint Federation Systems* by Muhammad Saleem, Yasar Khan, Ali Hasnain, Ivan Ermilov and Axel Ngonga is a full research paper. It reports on extensive experiments to compare state-of-the-art SPARQL endpoint federation systems using FedBench. This paper has also been selected as one out of six recent Semantic Web journal papers [2,3,4,5,6,7] which have been invited for presentation at the journals track of the 2016 International Semantic Web Conference, ISWC, in Kobe, Japan.

The third paper in this issue, *Publishing DisGeNET as Nanopublications* by N ria Queralt-Rosinach, Tobias Kuhn, Christine Chichester, Michel Dumontier, Ferran Sanz and Laura I. Furlong is a dataset description paper. It describes the representation of the DisGeNET database of human gene-disease associations as nanopublications in linked data form.

The fourth paper in this issue, *ClioPatria: A SWI-Prolog Infrastructure for the Semantic Web* by Jan Wielemaker, Wouter Beek, Michiel Hildebrand and Jacco van Ossenbruggen is a tool/system paper. It describes a comprehensive

semantic web development framework based on SWI-Prolog.

The fifth paper in this issue, *A content-focussed method for reengineering thesauri into semantically adequate ontologies* by Daniel Kless, Ludger Jansen and Simon Milton is another full research paper. It addresses the ontology acquisition bottleneck by leveraging thesauri.

## References

- [1] E. Blomqvist, P. Hitzler, K. Janowicz, A. Krisnadhi, T. Narock, and M. Solanki. Considerations regarding ontology design patterns. *Semantic Web*, 7(1):1–7, 2016.
- [2] D. Calvanese, B. Cogrel, S. Komla-Ebri, R. Kontchakov, D. Lanti, M. Rezk, M. Rodriguez-Muro, and G. Xiao. Ontop: Answering SPARQL queries over relational databases. *Semantic Web*, 2016. To appear.
- [3] S. Mazumdar, D. Petrelli, K. Elbedweihy, V. Lanfranchi, and F. Ciravegna. Affective Graphs: The visual appeal of linked data. *Semantic Web*, 6(3):277–312, 2015.
- [4] A. G. Nuzzolese, V. Presutti, A. Gangemi, S. Peroni, and P. Ciancarini. Aemoo: Linked Data exploration based on Knowledge Patterns. *Semantic Web*, 2016. To appear.
- [5] M. Saleem, Y. Khan, A. Hasnain, I. Ermilov, and A.-C. N. Ngomo. A fine-grained evaluation of SPARQL endpoint federation systems. *Semantic Web*, 7(5), 2016.
- [6] P.-Y. Vandenbussche, G. A. Atemezing, M. Poveda, and B. Vatant. Linked Open Vocabularies (LOV): a gateway to reusable semantic vocabularies on the web. *Semantic Web*, 2016. To appear.
- [7] A. Zaveri, A. Rula, A. Maurino, R. Pietrobon, J. Lehmann, and S. Auer. Quality assessment for linked data: A survey. *Semantic Web*, 7(1):63–93, 2016.