

Exercise Sheet 5: Structuring Research

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Exercise 5.1. For each of the papers, answer these questions: What are the hypotheses studied by the authors and how do they evaluate their hypotheses? Is the evaluation methodology adequate? Try to read only as much as you need to answer.

1. Georg Gottlob, Christos H. Papadimitriou (2003). On the complexity of single-rule datalog queries. *Inf. Comput.* 183(1): 104–122.
2. Yeh, R. W. et al. (2018). Parachute use to prevent death and major trauma when jumping from aircraft: randomized controlled trial. *BMJ* 2018;363:k5094.
3. Colpaert P., Verborgh R., Mannens E. (2017) Public Transit Route Planning Through Lightweight Linked Data Interfaces. In: Proc. Int. Conf. Web Engineering. ICWE 2017. LNCS, vol 10360. Springer.
4. Stumme, G., Taouil, R., Bastide, Y., Pasquier, N., & Lakhal, L. (2002). Computing iceberg concept lattices with TITANIC. *Data & Knowledge Engineering*, 42(2), 189–222.
5. Vrandečić, D., Krötzsch, M., Rudolph, S., & Lösch, U. (2010). Leveraging non-lexical knowledge for the linked open data web. In: *Rev. Apr. F. D. Trans.* 5: 18-27.

Exercise 5.2. Read the introduction of each of the following papers. How does the “story” evolve over the different versions of the paper? How do structure, presentation, and contributions change?

1. E. V. Kostylev, J. L. Reutter (2013). Answering counting aggregate queries over ontologies of the DL-Lite family. In: Proc. 27th AAAI Conf. on Artificial Intelligence. AAAI.
2. E. V. Kostylev, J. L. Reutter (2013). Complexity of Answering Counting Aggregate Queries over DL-Lite. In: Proc. 26th Int. Workshop on Description Logics. CEUR Workshop Proceedings 1014. CEUR-WS.org.
3. Egor V. Kostylev, Juan L. Reutter (2015). Complexity of answering counting aggregate queries over DL-Lite. *J. Web Semant.* 33: 94-111