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Smart Cities

We are interested in studying how to use the analysis of structured and unstructured data to address societal challenges such as energy efficiency, e-government, or public safety. More specifically, our research is related with in semantic and open data for smartcities and analysis of textual information.

Objectives

1. Identifying the appropriate semantics which allows a good expressiveness / computability tradeoff, and parallelization of query execution over single computing resources.
2. Massive distribution and parallellization schemas across resources, including indexing.
3. To provide approximate and semantically similar answers to these questions rather than no answer, and compile a benchmark of representative queries over urban data; these can be used to quickly find out what data is not available and find alternative ways to work with the existent data that are still useful.
4. Development of tools to extract the typical entities and to the identify explicit or hidden relations.