

Extension and NLP application development of the Italian and English FrameNet to legal language.

Frame Semantics is one of the reference semantic theories in Linguistics and lexical resources based on that theory, namely FrameNets, are fundamental tools for natural language processing.

In the framework of ERC Project "HyperModeLex - Hyperdimensional Modeling of the Legal System in Digital Society", this theory and the connected tools like FrameNets can be applied to devise a possible high-level formal representation of legal documents, both for transforming raw texts into abstract representation formats and for generating full texts from these representations.

In particular the project will involve the following activities:

- building a clear overview about formalisation of legal documents and how to model them inside the Frame Semantics framework;
- extending the Italian and English FrameNet to cope with legal language by restructuring the concept ontology accordingly and annotating new sentences/documents;
- extending the Italian FrameNet annotating new sentences and adding new lexical unit for standard language;
- supporting researchers in the legal domain in the development of a formal model for legal documents;

Prior knowledge of the Frame Semantics theory and experiences working on FrameNets is considered a fundamental prerequisite, while basic knowledge about python programming language will be considered an advantage for achieving the final goals expected.

Publications presenting the research work at national and international Conference proceedings as well as refereed journals are foreseen.