One of the salient subfield of IA is Computational Linguistics including its applied branch - Natural Language Processing (NLP). Computational Linguistics is the domain developing methods and algorithms for all the aspects of language analysis and their computer implementation. We can see language analysis split into two parts: the theoretic analysis and the applicative one. The theoretic aspect includes standard levels considered in linguistics: semantic, syntax, and morphology. Semantic theories have to be a guide of syntactical theories and morphological developments. It can inspire itself from some specific features of computation, as well. But in the present stage of research, one remarks a gap between linguistic analysis and computer applications in the double sense: there are many computer applications without a linguistic theoretic support and conversely, a number of theoretic methods having no computer implementation.

Ontologies as data resources are situated between semantic theories and NLP: general ontologies are under semantic theories and like domain ontologies, they use general semantic and NLP as well. For a theoretical perspective, it would be necessary to clarify what type of ontologies we can build, i.e. linguistic, general, formal, upper-level or domain ontologies. It is also necessary to use linguistic theories to build ontologies from texts instead of designing a clean, elegant ontology with a clear semantic and based only on sound logical principles. These ontologies has to give a formalized account of the most general categories and relations used in the description of type of objects, type of situations (event, process, state…) and type of actions.

This track is intended to present works going from semantic theories in natural language and cognition to computational methods and NLP applications related to underlying ontologies. It puts together semantic theories, ontologies, and systems of automatic language analysis.

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Dates and Deadlines

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