



LiMoSINE

LINGUISTICALLY MOTIVATED SEMANTIC AGGREGATION ENGINES

We increasingly live our life online. Information is accumulated on a wide range of human activities, from science and facts, to personal content, opinions and trends. Across the globe, people's knowledge, experiences and interactions effortlessly find their way to online outlets, alongside traditional edited content, ready to be shared with millions.

LiMoSINE will integrate the research activities of leading researchers across diverse topics with to enabling new kinds of language-based search technology.

LiMoSINE's engines will understand a user's intent, discover and organize facts, identify opinions, experiences and trends, all from inherently multilingual online sources and open knowledge repositories.

Vision

To transition from a document-centric search paradigm focused on returning disconnected atomic pieces to a truly semantic aggregation paradigm.

Objectives

LiMoSINE will enable semantically structured access to online information. To this end it will integrate deep linguistic processing in information extraction and pursue semantic mining with human-interpretable patterns. LiMoSINE will also develop evaluation methods for semantic search.

Three use cases

LiMoSINE will exploit its research results in three demanding multilingual use cases:

- Open-domain community question answering;
 - Online reputation management;
 - Intelligent content annotation and search on a photo-sharing platform.
- These will be pursued in three increasingly demanding release cycles.

Key innovations

Key innovations of the LiMoSINE project include its focus on online content, and especially social media. LiMoSINE will leverage accurate language processing tools and large-scale semantic resources. Tasks on which it focuses concern large-scale semantic mining, inference and prediction, with retrieval and recommendation algorithms for composite retrieval and personalized methods over streams of social media.

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Expected impact

Improved competitive position in a multilingual digital market. Scientific and technological leadership as a result of a widely accepted vision and roadmap

encompassing presently fragmented communities. And cooperation and exchanges between European and national efforts, closer partnership between research and industry

At a glance

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