

DIANA:
Multilingual cross-document Discourse ANalysis
A project proposal

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Heading for:

FP7-ICT-2013-10 call

Aiming at:

analysing **multilingual, multimodal** sources

to detect **argumentation structures**
in speakers' or public opinions,

convert them into exploitable **knowledge** units

and provide **cross-document discourse summary** over time

with **search** capabilities and **visualisation**

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Content:

- live parliamentary corpora
- live media corpora
- social media (Facebook, Twitter)

Expected results:

- unsupervised and semi-supervised tools for automatic discourse annotation for opinion detection
- discussion summarizer
- topic/event-based opinion search engine
- visualisation methods for complex relations

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Processing of a new *manned mission to Mars in 2020* article:

- topic detection → Manned mission to Mars
- opinion gathering → hazards, schedule, technical issues
- resolution of temporal expressions → 3 years from now
- entity disambiguation → e.g. from ocean Monterey Accelerated Research System observatory
- cross-document coreference resolution
- discussion summarisation → in 1998 the one-way trip option was proposed, in 2010 Obama said that the mission will happen by mid-2030s
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Expected to find partners proficient at:

- opinion tracking
- discussion analysis