Fact Sheet

Project information

MUSE

Grant agreement ID: 296703

Project website

Status
Closed project

Start date
1 September 2012

End date
30 November 2015

Funded under:
FP7-ICT

Overall budget:
€ 2 543 279

EU contribution
€ 1 993 326

Coordinated by:
KATHOLIEKE UNIVERSITEIT LEUVEN
Belgium

Project description

Challenging current Thinking

Objective

The MUSE project will introduce a new way of exploring and understanding information by "bringing text to life" through 3D interactive storytelling. Taking as input natural language text like children's stories or medical patient education materials, MUSE will process the natural language, translate it into formal knowledge that represents the actions, actors, plots and surrounding world, and then render these as virtual 3D worlds in which the user can explore the text through interaction, re-enactment and guided gameplay. To enable such a system, MUSE will make targeted advances in natural language processing that enable the translation of natural language text to the necessary knowledge representations, as well as targeted advances in the action representation and story planning necessary for interactive storytelling. In natural language processing, MUSE will develop new techniques for finding explicit action structures in text and combining them with implicit action structures inferred from the context based on probabilistic models of translation and automatic methods for acquiring world knowledge from large corpora. In interactive storytelling, MUSE will develop action and object representations that bridge the gap between natural language and virtual worlds, and will create advanced techniques for planning virtual world stories.
given inconsistent and incomplete information. The proposed methodology will be evaluated and showcased on two scenarios: one for creating immersive children's stories from text and one for allowing medical patients to interact with patient education materials. Comparable to the invention of symbolic writing systems several millennia ago, MUSE contributes to a novel symbolic system communicating natural language utterances.

**Field of Science**

natural language processing

languages - general

**Programme(s)**

**FP7-ICT - Specific Programme "Cooperation": Information and communication technologies**

**Topic(s)**

**ICT-2011.9.1 - Challenging current Thinking**

**Call for proposal**

FP7-ICT-2011-C

**See other projects for this call**

**Funding Scheme**

CP - Collaborative project (generic)

**Coordinator**

KATHOLIEKE UNIVERSITEIT LEUVEN

Address

Oude Markt 13
3000 Leuven
Belgium

Website

Contact the organisation

Administrative Contact

Tine Heylen (Ms.)

**Participants** (4)
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<th>Country</th>
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<td>€ 168 400</td>
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**EU Contribution**

€ 446 100

**Administrative Contact**

Marc Cavazza (Prof.)

**Website**

**Contact the organisation**

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**Last update:** 22 April 2017

**Record number:** 104176