



Language Intelligence & Information Retrieval (LIIR)

Research group of the Department of
Computer Science, KU Leuven
Human Computer Interaction section
<http://www.cs.kuleuven.be/groups/liir/>



Research Team

Academic Staff

- [Prof. Dr. Marie-Francine Moens](#)

Postdoctoral Researchers

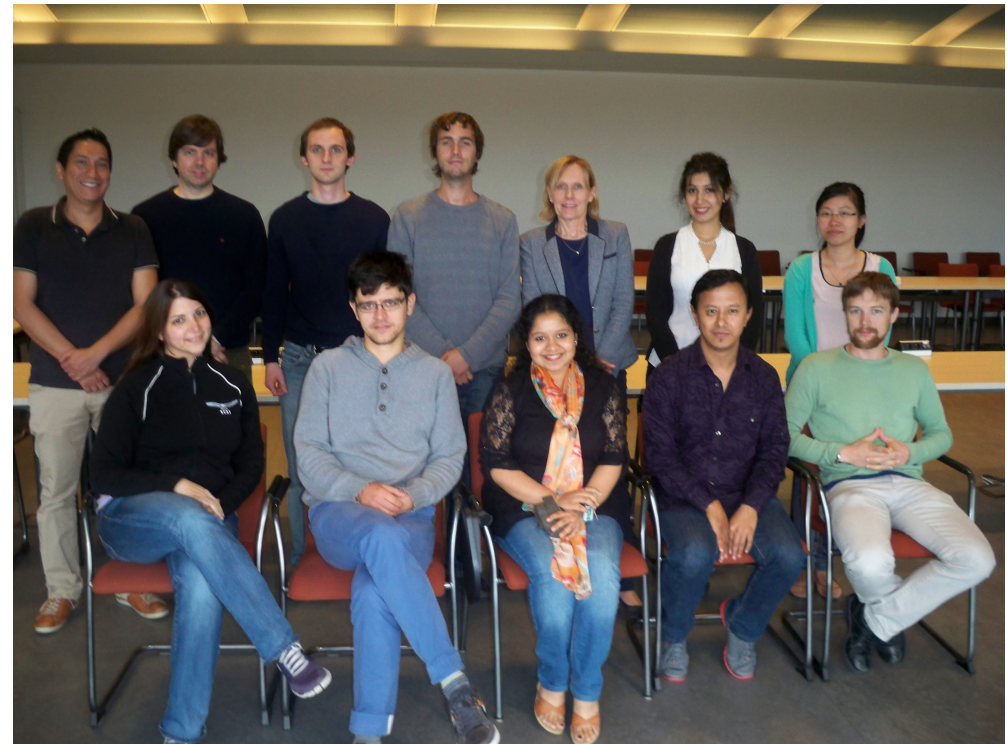
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- [Dr. Jan De Belder](#)
- [Dr. Juan Carlos Gomez](#)
- [Dr. Oswaldo Ludwig](#)
- [Dr. Parisa Kordjamshidi](#)

Research Assistants and PhD Students

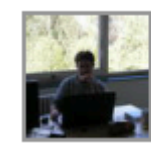
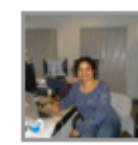
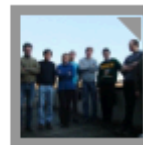
- [Aparna Nurani Venkitasubramanian](#)
- [Denis Lukovnikov](#)
- [Geert Heyman](#)
- [Golnoosh Farnadi](#)
- [Niraj Shrestha](#)
- [Quynh Do Thi Ngoc](#)
- [Susana Zoghbi](#)
- [Thomas Provoost](#)

Guest

- [Prof. Dr. Steven Bethard](#)



LIIR research team



Research of LIIR

- Automatic reading of text and translation to knowledge (= machine reading)
- Search engines, information retrieval and question-answering systems
- Cross-modal and cross-lingual processing of data
- Data fusion and inference from data

Unstructured (big) data

- Applications: **World Wide Web, business intelligence, social networks, multimedia, bioinformatics, legal informatics, security, ...**



Expertise of LIIR

Since 2007:

- Participation in 13 international and European projects, 3 EU COST actions, 1 EU infrastructure project and 11 large national projects (SBO-IWT, FWO, GOA, ...)

Examples of research questions

- How can we recognize patterns in data with a minimum of human input and supervision?
- How can we recognize structured related patterns?
- How can we deal with uncertain, incomplete and noisy information and infer information?
- How can we fuse heterogeneous information (e.g., textual and visual data, information in different languages) in order to improve the recognitions or the search for information?
- ...

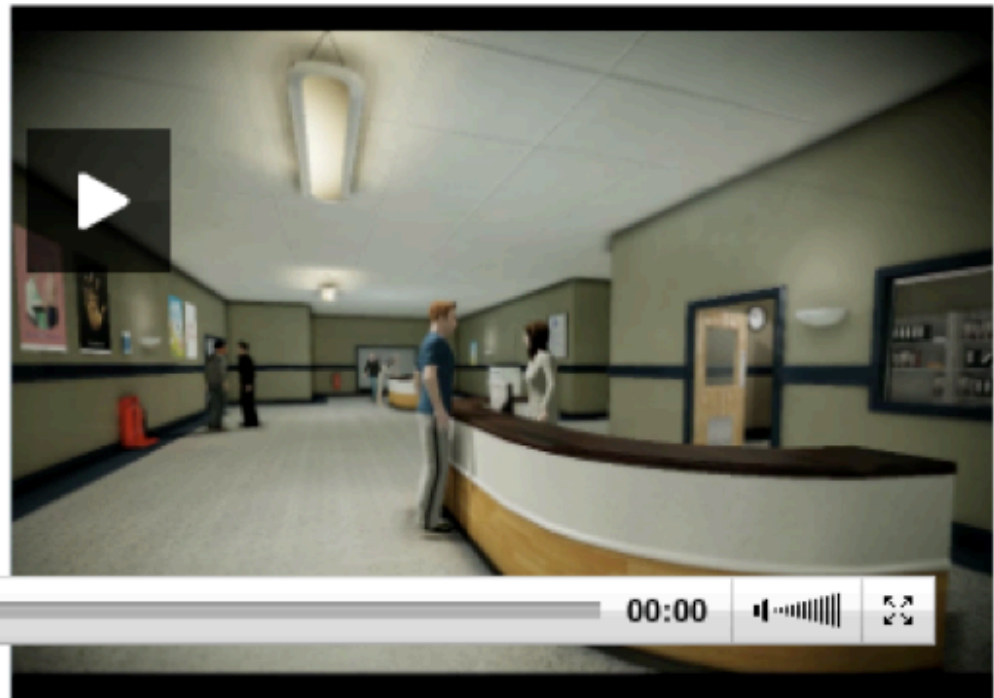
Machine understanding of natural language

Text source

"Admission to the hospital might seem scary, but it does not have to be. When you arrive you will be met by a friendly admissions nurse who knows your doctor well..."

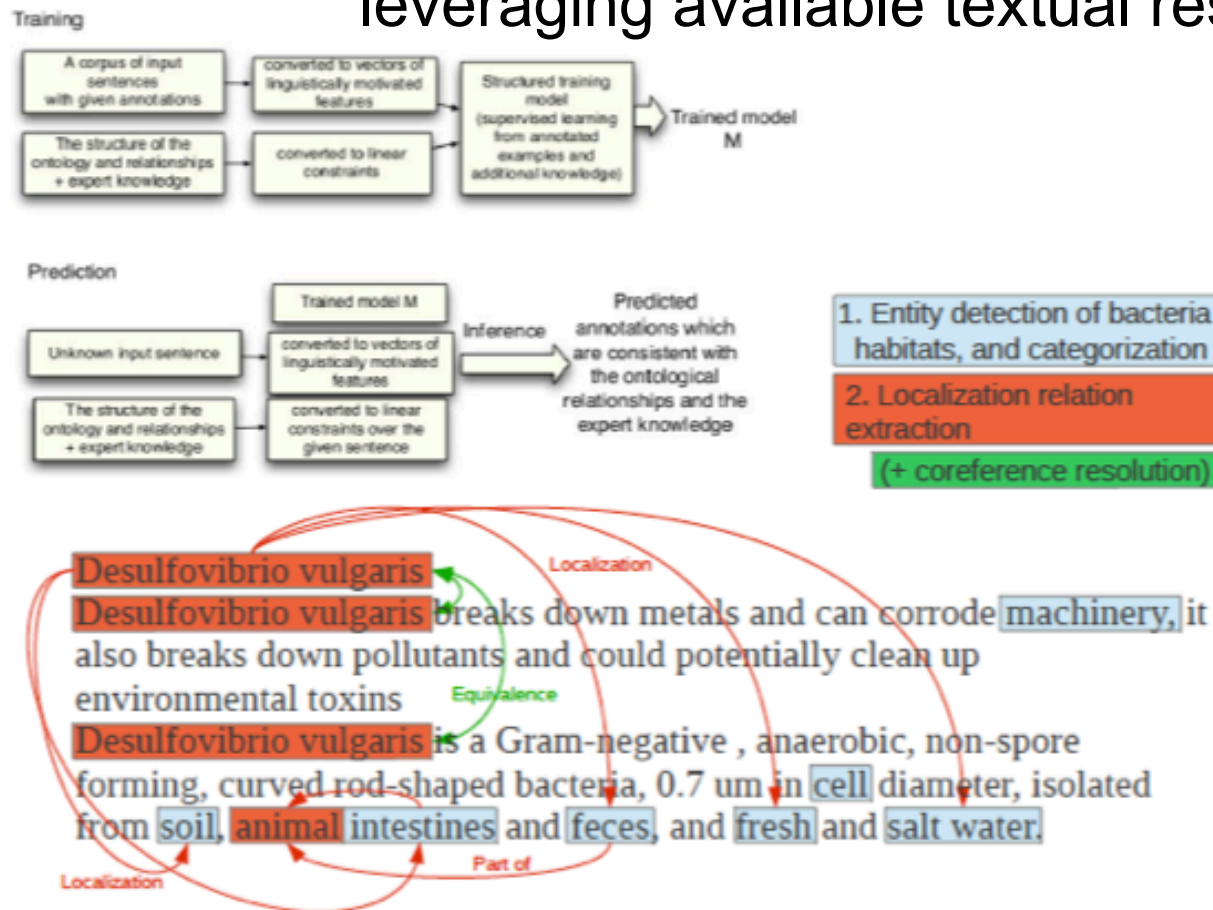
translation of stories for children and patient guidelines into a virtual reality

MUSE

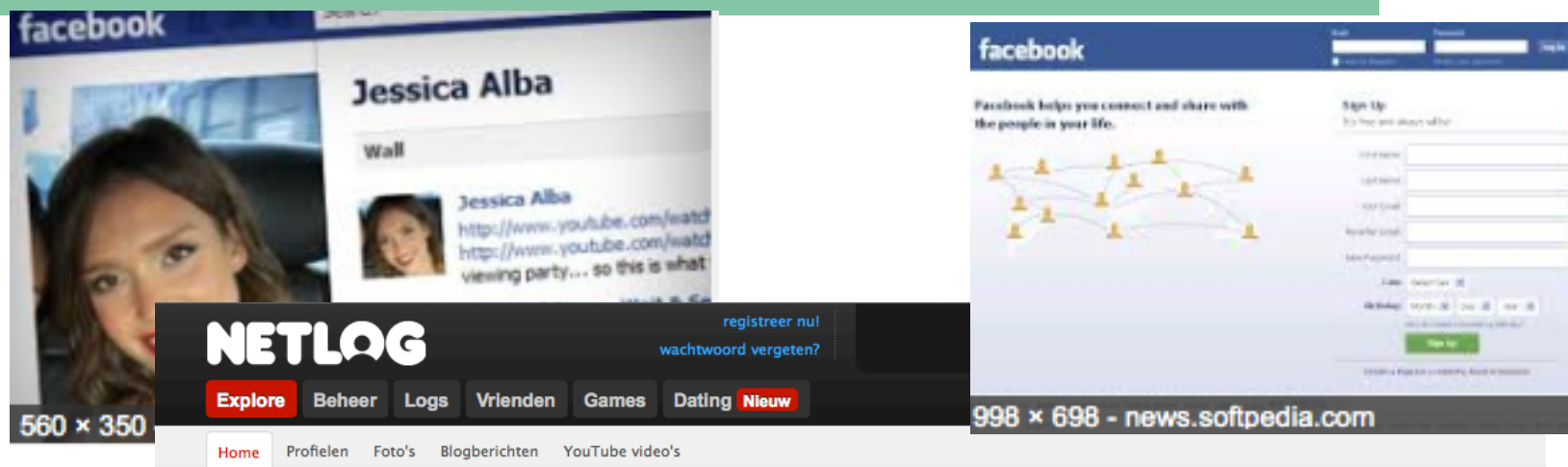


Machine reading of biomedical texts

as tools for researchers and patent offices:
leveraging available textual resources

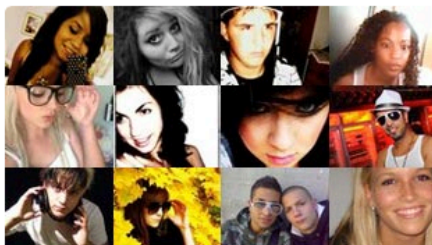


Mining of social media



Welkom op Netlog

Registreer gratis!



Netlog?

Netlog is de online community voor meer dan 96 miljoen leden.

Maak je eigen **profiel** met een **gastenboek**, **blog**, **vrienden**, **foto's** en **YouTube video's**.

Je e-mailadres

Kies een wachtwoord

Ben je al lid?
Meld je nu aan.

Registreer

Netlog in je broekzak!



Hou je ganze vriendennetwerk in je broekzak met de Netlog app voor iPhone, iPod Touch en Android!

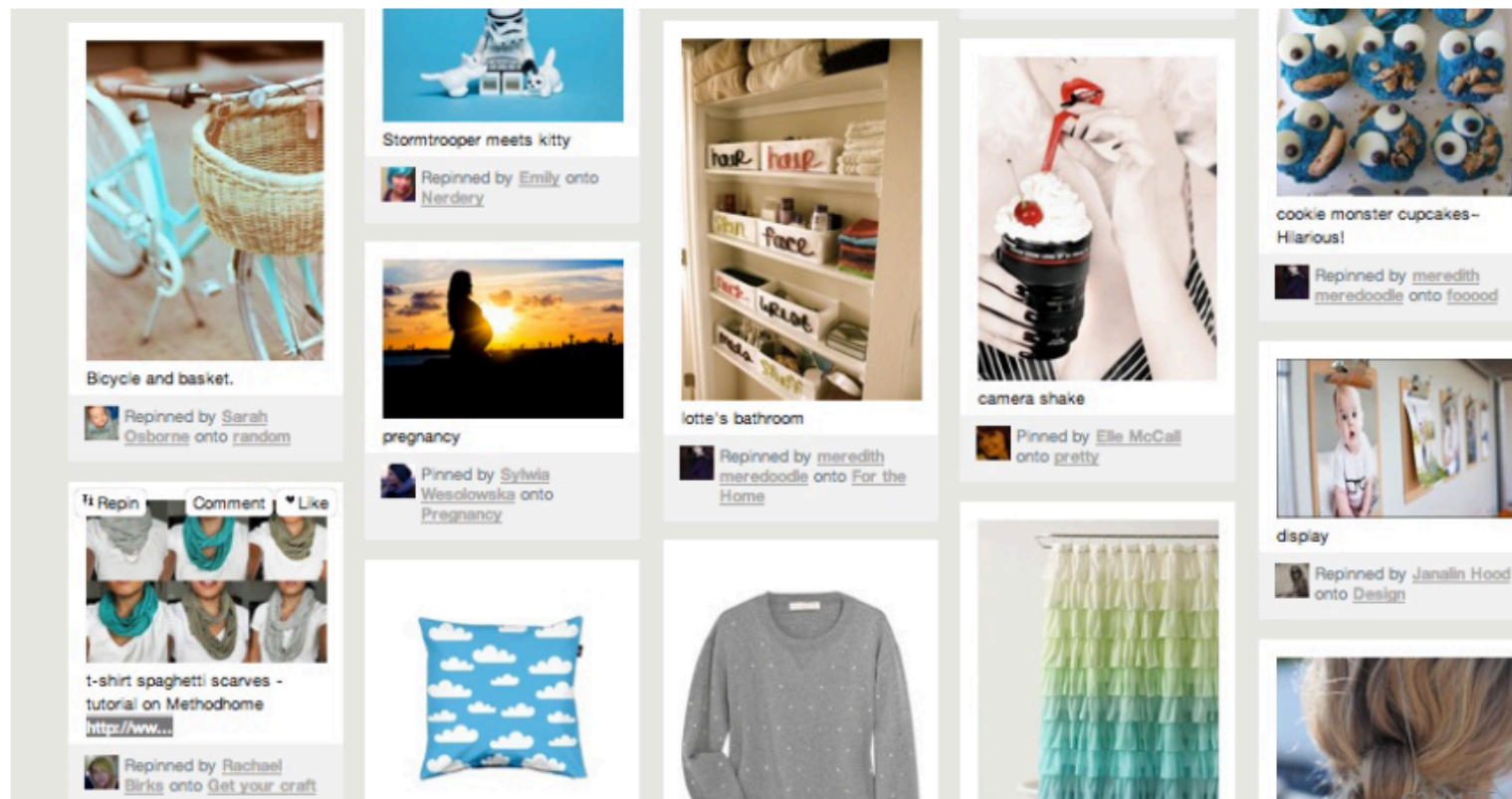
TWOO

Meet new people this summer on Twoo

Join Twoo

Linking the Web across languages and idioms

Source: [Pinterest.com](https://www.pinterest.com)



Cross-modal mining and search


of textual and visual broadcast data

BBC

NewsSportWeatherCapitalFutureShopTVRadioMore...


Search

WEDNESDAY, 20 AUGUST




Militants 'kill reporter on video'


The Islamic State militant group releases a video purporting to show the beheading of US journalist James Foley, who was seized in Syria in 2012.




The frontline of the Ebola crisis




Why some families risk everything to live here



Second police killing in Missouri



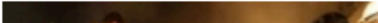


Bikini ban: The city where a swimsuit could land you in hot water



Brewing a beer revolution

"Beer Hunter" Oscar Olsen built a career out of a passion for beer-making - and has chosen Mauritius to make his dreams reality.

NEWS

MUSCLE CARS

		
Challenger SRT Hellcat	Ducati Monster 821	Aluma MC10 trailer
\$59,995	\$11,495	\$2,000



Infographic: Hellcat's true price

It generates 707 horsepower, tops out at 199mph and on price, undercuts some frightfully powerful competition.

AFRICA'S NEW ENTREPRENEURS



Brewing a beer revolution

"Beer Hunter" Oscar Olsen built a career out of a passion for beer-making - and has chosen Mauritius to make his dreams reality.