MSc. Projects in the Knowledge Representation and Reasoning group

Laura Hollink
http://krr.cs.vu.nl/
Many projects...

- Finding Semantics in Clinical Trials
- Medical Data recommender
- Rapid cancer diagnosis
- Linked Politics
- Like? Finding unexpected information
- QueryFinder: from natural language to queries
- Find This: semantic info from powerpoint
- Provenance on the Web
- Ontologies in Javascript
- Dynamic data loading
- Social reader for physical libraries
Finding Semantics in Clinical Trials

- The EURECA project connects medical care to medical research
- Patient records – Clinical trials
- Repositories of all trials done in the world.
- How can we add knowledge and structure for better access?

http://eurecaproject.eu/
Supervisor: Laura Hollink
Medical Data Recommender

- [http://www.stoneroos.nl/](http://www.stoneroos.nl/)
- Medium-sized company on the Media Park in Hilversum
- Expertise: recommendation, apps, user interaction.
- Msc. projects available on recommendation in the EURECA project, i.e. on medial data
- You’re welcome to come talk to them about research questions.
Rapid cancer diagnosis

- Can we support a GP in whether he/she recommends patients to have a colon cancer check.
- What are signs, risk factors?
- Keywords: knowledge representation, decision support, data mining.

Supervisor: Annette ten Teije
Linked Politics

- The government opens up more and more data. Now is the time to use it!
- Complete proceedings of all parliamentary debates.
- Combine this with newspaper archives and we’ve got a full account of the political debate in NL.

1. Can we build a semantic network of parliamentary debates, politicians, media items?

http://polimedia.nl/  
Supervisor: Laura Hollink
Like?

• Database-queries are usually about returning specific answers, and leave no room for serendipity.

• The Web of Data is both a database and a free publishing place, so sometimes one wants to find unexpected information, something like “my favourite book”, but not the book itself. And that might be a movie, another book, a city?

• Interest in Optimisation Theory? Semantic Web? Information Retrieval?

• Supervisor: Stefan Schlobach
QueryFinder

• Gigabites of data are published on the Web of Data, but it is difficult to query the data, as the schema is not known. QueryFinder is supposed to be a tool-kit that comes up with SPARQL queries from natural language.


• Supervisor: Stefan Schlobach
Extracting Semantic Information from Powerpoint
Supervisor: Paul Groth

Find this?

How much provenance is on the Web?

Supervisor: Paul Groth

How to survive a plane crash (in one chart)

Posted by Sarah Kliff on October 4, 2012 at 2:06 pm

When most of us choose our airplane seats, we think about things like whether we want a nice view from the window or more legroom. But if safety in a plane crash is your number one concern, here's a tip: Sit near the back of the plane.

The aptly-named Chart Porn flags this chart from Popular Mechanics detailing odds of survival during a plane crash, depending on where you're seated. It's a few years old but, given that they pored through 36 years of data on airplane fatalities, it's probably the best guide we have on the subject.
Grounding Ontologies in Javascript-based Simulators
Supervisor: Paul Groth

What does kick mean?

How do we make web semantics action oriented?