

Semantic Web Technologies

Eva Blomqvist

Olaf Hartig

Patrick Lambrix

Robin Keskisärkkä

Huanyu Li

The Semantic Web group @LiU

Faculty



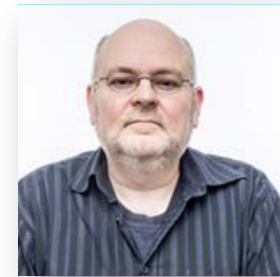
Eva Blomqvist



Olaf Hartig



Henrik Eriksson



Patrick Lambrix

PhD students

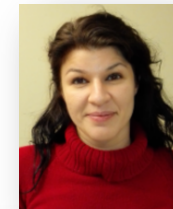


Robin Keskisärkkä

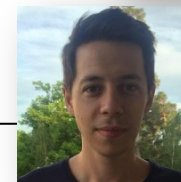


Huanyu Li

Recent alumni



Valentina
Ivanova



Zlatan Dragisic



Karl Hammar

Schedule of the week

- Monday - Introductions and basics
- Tuesday - RDF, SPARQL and data management
- Wednesday - Ontology engineering
- Thursday - Description Logics, ontology engineering cont., ontology alignment and debugging
- Friday - SHACL and additional data management

Morning session: 09:00-12:00 (Tuesday-Friday)

Afternoon session: 13:00-17:00 (Monday-Thursday)

This is a practical course!

- Today you don't need to download and install anything
- For Tuesday not necessary to prepare, but if you want to pre-download some things, look at:
<http://www.ida.liu.se/research/semanticweb/events/SemWebCourse2018/HandsOnRDF.shtml>
- For Wednesday you need an ontology engineering tool, such as
 - Protégé (<https://protege.stanford.edu/>)
Free open source tool, preferably download the latest version of the desktop client - alternatively use the WebProtégé but it lacks some functionality
 - Top Braid Composer (<https://www.topquadrant.com/tools/ide-topbraid-composer-maestro-edition/>)
Commercial tool, 30-day free trial, more targeted at using ontologies together with RDF data

Requirements for PhD students

- Active participation in all hands-on sessions
- Assignments (TBD)
- Select a project to complete after course
 - Reading projects: select a topic from the course, read at least 5 research articles in that area, write a summary of those articles (5-10 pages)
 - Practical project: select a technology discussed in the course, apply it on something related to your own PhD project, write a summary of what you did and your experience/evaluation of the technology (5-10 pages) – alternatively: a practical project provided by us

Expectations of the course

- Say a few words on
 - Who you are and where you are from
 - Your prior knowledge and experience of Semantic Web Technologies
 - Why you are taking this course
 - What you expect to take away from the course

Schedule Monday

- 13:00-13:35 Welcome and introduction
- 13:35-14:35 Introduction to the Semantic Web vision
10 mins break
- 14:45-15:45 Introduction to RDF and Linked Data
15 mins break
- 16:00-17:00 Introduction to ontologies

www.liu.se