



# Hypermedia

Prof. Petri Vuorimaa, Aalto University

# Why Aalto University?

- Aalto University is Finland's largest ICT education organization
- Located in Otaniemi, a technology hub with a large number of top-level research organizations and technology businesses
- Aalto plays a central role in a Buzzing community of startup activities
- Otaniemi is also known for its active student culture organized through student associations or guilds
- Finland is safe, relaxed, equal and organized society, and has a world-famous education system
- Almost all Finns speak English, so you can conduct a normal daily life, study, and even work in Finland completely in English
- Students have excellent student benefits (incl. discounts for meals, housing, transportation and student health care)

MVC HTML5 Library  
jQuery CSS3 Umbraco JSON Meta  
ASP.NET PHP AJAX SVG Data Toolkit  
Perl Javascript  
ASP.NET PHP Umbraco JSON Meta  
AJAX SVG Data Toolkit  
Javascript  
Download SVG  
Framework  
Browser  
DOM Server Scripts  
Search Engine Software  
Flash Strategy  
Blog Emails  
Server  
In-house  
Design  
Javascrpt  
Accessibility URL  
SEO

# Why Web?

- Biggest innovation in computer science?
- not limited to computer science
- Constant need for new experts at work market
- New research topics emerge all the time
- Web programming is nowadays needed in almost all computer applications
- New business opportunities
- Many startups
- Societal impact, e.g., open linked data



# Semantic Computing Research Group (SeCo)

Making computers and the web more intelligent and interoperable!

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## HOMEPAGE

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## DOWNLOAD

Wikipedia: [Semantic web suomeksi](#)

Google this site

## Eero Hyvönen

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### Research activities

#### Areas of interest

- [Semantic web, Artificial intelligence and Semantic Computing](#)
- [Interval computations and constraint satisfaction \(formerly\)](#)
- [Software business \(formerly\)](#)

### Semantic web, Artificial intelligence and Semantic Computing

### Publications

[Full list of publications](#)

Text books and edited volumes/issues.

### Latest News

[Linked Open Data Science project starts](#)  
 A new project starts at SeCo, where a data service for publishing...

4.5.2015 10:11 by eahyvone

[Linked Data Finland Double Winner in Apps4Finland Competition](#)  
 Apps4Finland – Doing Good with Open Data is a major Finnish...

4.12.2014 13:57 by eahyvone

[State Award for Public Information](#)  
 Professor Eero Hyvönen receives State Award for Public Information...

25.9.2014 15:40 by eahyvone

### Latest Publications

Eetu Mäkelä, Juha Törnroos, Thea Lindquist and Eero Hyvönen: [World War 1 as Linked Open Data](#)

Eero Hyvönen, Jouni Tuominen, Esko Ikkala and Eetu Mäkelä: [Ontology Services Based on Crowdsourcing: Case National Gazetteer of Historical Places](#)

Eero Hyvönen, Jouni Tuominen, Eetu Mäkelä, Jérémie Dutruit, Kasper Apajalahti, Erkki Heino, Petri Leskinen and Esko Ikkala: [Second World War on the Semantic Web: The WarSampo Project and Semantic Portal](#)

Osma Suominen, Henri Ylikotila, Sini Pessala, Mikko Lappalainen, Matias Frosterus, Jouni Tuominen, Thomas Baker, Caterina Caracciolo and Armin Retterath: [Publishing SKOS vocabularies with Skosmos](#)



## Department of Computer Science

### The Web Services Group

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### The Web Services Group

The **Web Services Group** is led by [Prof. Petri Vuorimaa](#) and is part of the [Department of Computer Science](#) at the [Aalto University School of Science](#).

The Web Services Group conducts research on web-based services and architectures including scalable Internet-based architectures, web applications platforms and social media technologies. Our competences include web technologies, web-based social media, web of things, digital television, and mobile multimedia applications.

### Personnel

#### Current

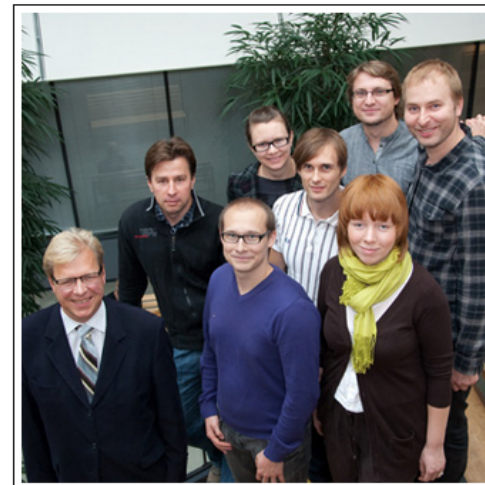
- [Prof. Petri Vuorimaa](#)
- [Docent, PhD Tomi Kauppinen](#)
- [D.Sc. \(Tech.\) Jari Kleimola](#)
- [M.Sc. \(Tech.\) Hannu Järvinen](#)
- [M.Sc. \(Tech.\) Markku Laine](#)
- [M.Sc. \(Tech.\) Evgenia Litvinova \(née Samochadina\)](#)
- [M.Sc. \(Tech.\) Pia Tukkinen \(née Ojanen\)](#)

#### Alumni

- D.Sc. (Tech.) Mikko Pohja, currently at [Digia](#)
- [D.Sc. \(Tech.\) Mikko Honkala](#), currently at [Nokia Research Center](#)
- D.Sc. (Tech.) Istvan Beszteri, currently at [Nokia](#)
- D.Sc. (Tech.) Pablo Cesar, currently at [CW](#)
- D.Sc. (Tech.) Leena Eronen
- D.Sc. (Tech.) Kari Pihkala, currently at [Accenture](#)
- D.Sc. (Tech.) Chenguan Peng, currently at [VTT](#)

### Courses

- [ME-C2300 Basics of Web Publishing \(5 cr\)](#)
- [T-111.4360 Design of WWW Services \(4 cr\)](#)
- [T-111.5350 Multimedia Programming \(4 cr\)](#)
- [T-111.5360 WWW Applications P \(4 cr\)](#)



### News

#### Oct 1, 2013

Jari Kleimola will present TouchModifier: Enriched Multi-Touch Gestures for Tablet Browsers at [ACM International Conference on Interactive Tabletops and Surfaces \(ITS\)](#) on October 7, 2013.

#### Oct 1, 2013

Prof. Petri Vuorimaa will come back from his sabbatical leave at the beginning of November 2013.

#### Apr 5, 2012

Pia Tukkinen will give two talks on the UbiCloud project and on directed onsite information sharing at [International Conference on Web Information Systems and Technologies \(WEBIST\)](#) on April 19 and 21, 2012, respectively.

# Compulsory Courses

- T-75.5300 Web Services 4 ECTS
- CSE-C3210 Web Software Development 5 ECTS
- T-111.5360 WWW Applications 4 ECTS
  
- Language course: Compulsory degree requirement, both oral and written requirements 3 ECTS\*
- T-106.5330 ICT Innovation I&E Minor Thesis 6 ECTS

# Optional Courses

- T-75.5600 Special Assignment in WWW and Knowledge Tech. 2-8 ECTS
- ME-E4500 Explorative Information Visualization 5 ECTS
- T-121.5300 User Interface Construction 4 ECTS
- T-111.5501 Seminar on Media Technology 4 ECTS
- T-110.5121 Mobile Cloud Computing 5 ECTS

# Recent Master's Theses

- **Exposing Internal Bank API's**
- **Augmented Reality using indoor positioning**
- Managing Outsourced and Distributed Image Content Production for Web Applications
- Server Requirement Recommendations for Modern Single Page Web Applications
- Single-Page Architecture as Basis for Web Applications
- Operators building new business models around Application Programming Interfaces: Preparing for Internet of Things



[masterschool.eitdigital.eu](https://masterschool.eitdigital.eu)

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