

## Two-day doctoral seminar, Thursday 23<sup>rd</sup> and Friday 24<sup>rd</sup> April 2015

Organized by:  
Graduate School of Software Systems and Engineering (SoSE)  
University of Oulu, Department of Information Processing Science  
[www.sose.oulu.fi](http://www.sose.oulu.fi)

### Model-Driven Web Engineering

Prof. Gustavo Rossi, La Plata National University, Argentina

The seminar is open for all. Please register in advance: [liisa.kuonanoja@oulu.fi](mailto:liisa.kuonanoja@oulu.fi)

Date:

Thursday 23<sup>rd</sup> April, 12.15-16.00, IT138

Friday 24<sup>rd</sup> April, 8.15-12.00, IT138

The classroom is at University of Oulu, Ympäristötietotalo, Paavo Havaksentie 3, 90570 Oulu.

### Preliminary schedule:

Thursday:

12:15-14:00 Introduction to the course, Problems of Web applications and a presentation of Web Patterns

14:00-14:15 Break

14:15-16:00 Model-Driven Web Engineering

Friday:

8:15-9:20 Introducing Agility in MDWE

9:20-9:30 Break

9:30-10:40 Model Driven Refactoring in Web Apps

10:40-10:50 Break

10:50-11:50 Dealing with Volatility in Web applications design

### Speaker bio:

Dr. Gustavo Rossi has been researching Web Applications Design since 1993 and received his PhD in PUC-Rio, Brazil in 1996. The thesis was about development of the Object-Oriented Hypermedia Design Method (OOHDM) design approach, which is one of the mature methods for the development of Web applications. Currently he is full professor at Computer Science College, La Plata National University, Argentina and head of LIFIA, which is one of the most important research laboratories at the university. He has been part of the PC committee of the most important conferences of his research field, such as ACM WWW, ICWE and ACM Hypertext.

**The seminar:****Module 1: Introduction**

Introduction to the course, Problems of Web applications and a presentation of Web Patterns

**Module 2: Model-Driven Web Engineering**

Brief introduction to modeling and model-driven software development and introduction to model driven web engineering. Basic concepts of Web application modeling (based on OO4M) and presentation of 2 or 3 well known approaches: UWE, WebML and IFML.

**Module 3: Introducing Agility in MDWE**

A brief introduction and motivation to agile approaches. Description of three or four research projects related with this

**Module 4: Model Driven Refactoring in Web Apps**

Introduction to refactoring and refactoring in Web applications. A taxonomy of refactorings and presentation of some of them

**Module 5: Dealing with Volatility in Web applications design**

The problem of volatile requirements; examples and presentation of an approach for solving the problem