



Tuesday, August 26, 2014 (Full-day)

TUTORIAL ANNOUNCEMENT

22nd IEEE International Requirements Engineering Conference
(RE'14) – Karlskrona, Sweden – <http://www.re14.org>



**Robert
Woitsch**

T13 – Developing modelling toolkits for requirements engineering

Requirement elicitation, analysis, documentation, verification and validation ensuring traceability of business processes- / business goals- often demand modelling tools that support the whole requirement engineering life cycle. Current modelling tools such as UML, i*, BPMN, or ER tools usually focus on a particular aspect and hence neglect the fact that thorough requirement engineering needs to involve all stakeholders, from business as well as from software engineering point of view.

Available modelling tools, fit for a specific purpose but do not (i) support the whole requirement engineering life cycle, (ii) provide flexibility in quickly adding a personalised functionality, (iii) support a holistic view and (iv) provide functionalities to act as an instrument for model-driven management.

This tutorial introduces the meta-modelling platform ADOxx (www.adoxx.org) that overcomes aforementioned shortcomings, as modelling tools can be quickly developed on top of a mature meta modelling platform. Hence the development of modelling tools for UML, BPMN or ER is quickly possible, the addition of functionalities like (a) visualisation, (b) query, (c) simulation, (d) transformation into other formats as well as (e) the integration of add on developments like Wikis, SMS notification, Web-portals or issue tracking systems that are tightly connected with models becomes feasible to be developed with a huge pay off of already existing functionalities when developing on top of the ADOxx platform.

This tutorial shows in a step by step approach how to develop an own modelling toolkit for requirement engineering, by providing UML, BPMN, ER and OWL modelling tools as a starting point, establish an extensive and simple to use development infrastructure to integrate, separate and combine parts of aforementioned modelling tools, customize and adapt modelling languages and functionalities and add third party components to derive a personalised fully-fledged modelling and management environment for requirement engineering.



**Pericles
Loucopoulos**



**Wilfrid
Utz**

BIOGRAPHIES

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BIOGRAPHIES

Dr. Robert Woitsch is managing the Innovation Group at BOC. He holds a PhD in business informatics and is involved in commercial and European innovation projects dealing with conceptual modelling since thirteen years. He will explain the development of modelling tools based on practical experiences of more than twenty EC research and innovation projects. His group is hosting adoxx.org.

Prof. Loucopoulos is professor of Information Systems and joined the Business School at Loughborough University at the end of 2006 in the Management Science and Information Systems (MSIS) research group following 23 years at University of Manchester where he held the Chair of Information Systems Engineering. He began his professional career in industry working in the City, one of the world's major financial centres and developing some of the earliest on-line real-time UMIST brokering IT systems.

Wilfrid Utz is a PhD student at the Knowledge Engineering research group of the University of Vienna. Within his research he works on realization approaches for domain-specific modeling methods applying meta-modeling concepts, with a specific focus on service-based interaction. He holds a MSc in international business administration with a focus on business informatics and gained experience in the development of modeling toolkits with a number of national and international research projects. He has vast experiences in using ADOxx and massively contributes to adoxx.org.

