OMI-KA2 Project

Co-funded by the
Erasmus+ Programme
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OMiLAB: An Environment to Design and Develop Modelling Methods for the Factory of the Future

Workshop Chairs:
Xavier Boucher, École des Mines de Saint-Étienne, France
Dimitris Karagiannis, University of Vienna, Austria

Associated workshop at the "8th IFAC Conference on Manufacturing, Modelling, Management and Control"
UTT- University of Technology of Troyes

OMiLAB
www.omilab.org

universität wien

MINES Saint-Étienne

The OMi-KA2 Project

OMiLAB - The laboratory for agile modelling method development

- The Open Models Laboratory (OMiLAB, www.omilab.org) is a dedicated research, learning, collaboration and experimentation space for modelling method engineering.
- Both as a physical and virtual place, it offers concepts, tools and a meta-modelling platform (www.adoxx.org) for the engineering of IT-based modelling tools.

Consortium (2014-2017)

- 8 partners
- 7 countries : Austria, Italy, France, Germany, Belgique, Grèce, Suède
- EU-funded Project under Erasmus+ Key Action 2: Strategic Partnerships

Key actions :

- ❑ Development of 4 new modelling methods
- ❑ Developement of teaching and educational material, available on an open learning platform
- ❑ International Doctoral Summer School : NEMO 2015, NEMO 2016
- ❑ Book Publication: “Domain-Specific Conceptual Modeling - Concepts, Methods and Tools”, D. Karagianis, H.C. Mayr, J. Mylopoulos

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Objective of the Workshop

Industry 4.0

- ✓ *Intelligence & Technology*
- ✓ *Connexion, Interoperability*
- ✓ *Agile and collaborative socio-organisation*

Digital Manufacturing

How can enterprise modelling and simulation methods help in implementing and managing the support and service processes required for the new paradigm of “Digital Manufacturing” ?

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Agenda of the Afternoon

Conference Session

Servitization as component of the transition towards Factory of the Future – Modelling Methods and Decision Making Supports

- *Xavier Boucher, Mines St Etienne*, manufacturing transition towards Product-Service-Systems
- *Yves Ducq, Bordeaux University,* Interoperability through a model driven approach and applications

Designing and implementing the Factory of the Future – Interoperable Information Systems.

- *Sandra Haltmayer, FSTI,* Network related transitions towards the Industrial Internet of Things
- *Dimitris Kiritsis, EPFL,* The LinkedDesign approach to semantic modelling for design manufacturing

Exchanges with the audience

Demonstration Session

- Nawfal Idrissi, Mines St Etienne, **PSS-Scenario Modeller: a PSS modelling method**
- Robert Buchmann, University Babes-Bolyai Cluj Napoca,**The Modelling Requirements for Mobile Maintenance**
- Jean Claude Morel, Missler, **Modelling in Additive Manufacturing**

Panel Session

How can enterprise modelling and simulation methods help in implementing and managing the support and service processes required for the new paradigm of "Digital Manufacturing" ?

- **Sergio Cavalieri**, Universita di Bergamo
- **El-Houssaine Aghezzaf,** Ghent University
- **Helena Navas**, Universidade Nova de Lisboa
- **Alexandre Dolgui**, Ecole des Mines de Nantes

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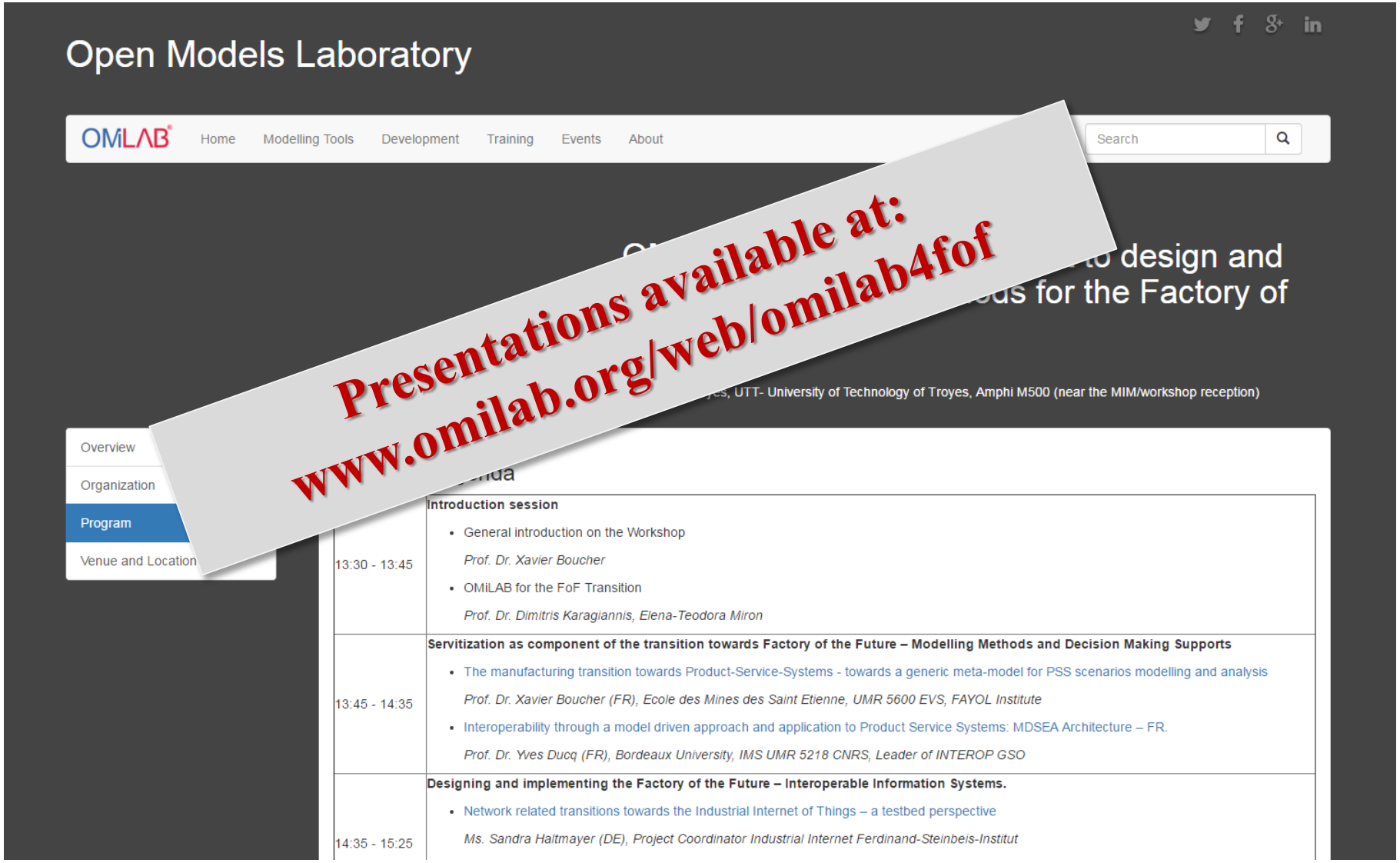
Conference Materials: Download



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