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# INVITATION

## TO THE SUMMARY EVENT

CHRISTIAN DOPPLER LABORATORY

SOFTWARE ENGINEERING INTEGRATION  
FOR FLEXIBLE AUTOMATION SYSTEMS  
(CDL-Flex)

Tuesday, December 13, 2016, 15:00 s.t.

Technische Universität Wien, Zemanek Saal,  
1040 Wien, Favoritenstr. 11, ground floor



FAKULTÄT  
FÜR INFORMATIK  
Faculty of Informatics



# PROGRAM

## CHRISTIAN DOPPLER LABORATORY SOFTWARE ENGINEERING INTEGRATION FOR FLEXIBLE AUTOMATION SYSTEMS (CDL-FLEX)

The increasing complexity and flexibility of developing modern automation systems, such as cyber-physical production systems, requires the systematic integration of software tools across engineering disciplines.

In the Christian Doppler Laboratory CDL-Flex [1], founded in 2010 at TU Wien, researchers from informatics and control engineering have worked on industrial challenges to develop and evaluate approaches for the technical and semantic integration of software tools and knowledge models across engineering disciplines [2].

Key research results are a technical integration platform for software tool chains, the „AutomationML Hub“, an approach for model-based design and integration of the simulation of industrial systems, Semantic Web-based methods for the integration of engineering data documented in a recent Springer book, and an approach for the model-based adaptation of production systems, as a foundation for implementing *Industrie 4.0* use cases.

In this summary event, lead researchers from the CDL-Flex will give an overview of the main research results in the final funding period in a festive context.

We are looking forward to your participation!  
Stefan Biffi

[1] <http://cdl.ifs.tuwien.ac.at>

[2] <http://cdl.ifs.tuwien.ac.at/downloads>

### WELCOME

Prof. Dr. Hannes Werthner,  
Dean of the Faculty for Informatics, TU Wien

Prof. Dr. Eva Kühn,  
Member of the Christian Doppler Society Senate; CDL-Flex Patin

### PRESENTATIONS

#### **Flexible Integration of Engineering Environments with the AutomationML Hub**

Prof. Dr. Stefan Biffi, Head of the CDL-Flex  
Institute for Software Technology und Interactive Systems, TU Wien

#### **Improving Multi-Disciplinary Engineering of Industrial Production Systems**

Dr. Richard Mordinyi, Dr. Dietmar Winkler, Research Area Leads  
Heinrich Steininger, CTO of the company partner logi.cals Austria

#### **Semantic Web for Intelligent Engineering Applications**

Dr. Marta Sabou, Research Area Lead

#### **Knowledge-based simulation model design and integration**

Dr. Radek Sindelar, Research Module Lead  
Prof. Dr. Vladimir Marik, Czech Technical University, Prag  
Chairman of the company partner CertiCon a.s.

#### **Model-Driven Adaptation Engineering**

Doz. Dr. Manuel Wimmer, Research Module Lead  
Peter Lieber, Founder of the company partner LieberLieber

#### **CDL-Flex in the context of Industrie 4.0 at TU Wien**

Prof. Dr. Detlef Gerhard, Dean of the Faculty for Mechanical and Industrial Engineering  
Head of the Doctoral College „Cyber-Physical Production Systems“

After the presentations, we invite to snacks and networking.  
Participation is free of charge.  
RSVP by November 30 at <<http://bit.ly/cdlflex-event-12-2016>>