

STAF WORKSHOP ON  
VERIFICATION OF  
MODEL TRANSFORMATIONS

L'AQUILA, ITALY.  
JULY 23, 2015

# VOLT 2015



## Welcome

Moussa Amrani, Eugene Syriani, Manuel Wimmer

# Welcome...

- ...to the 4th International Workshop on the Verification Of model Transformation (VOLT'15)
- **Objectives**
  - Improve quality of software by models and transformations
  - Using (semi-)formal methods
  - Verify & validate model transformations
  - Identify properties of model transformations
  - Tools and automation
  - Applicable in industrial context
- **Verification challenges**
  - Translation case: *UML class diagrams to RDBMS Transformation*
  - Translational semantics case: *UML Activity Diagrams to Petri nets Transformation*
  - Simulation case: *Pacman Simulation Transformation*

# Thanks to...

- **Program Committee (1/2)**

- Mark Asztalos (Budapest University of Technology and Economics, Hungary)
- Dider Buchs (University of Geneva, Switzerland)
- Jordi Cabot (INRIA, France)
- Marsha Chechik (University of Toronto, Canada)
- Antonio Cichetti (Malardalen University in Vasteras, Sweden)
- Juan de Lara (Universidad Autónoma de Madrid, Spain)
- Michalis Famelis (University of Toronto, Canada)
- Holger Giese (Hasso-Plattner-Institute, Germany)
- Martin Gogolla (University of Bremen, Germany)
- Jeff Gray (University of Alabama, USA)
- Esther Guerra (Universidad Autónoma de Madrid, Spain)
- Reiko Heckel (University of Leicester, UK)
- Ákos Horváth (Budapest University of Technology and Economics, Hungary)

# Thanks to...

- **Program Committee (2/2)**

- Akram Idani (Grenoble INP, France)
- Marouane Kessentini (University of Michigan, USA)
- Leen Lambers (Hasso-Plattner-Institute, Germany)
- Kevin Lano (King's College London, UK)
- Tihamer Levendovszky (Vanderbilt University School of Engineering, USA)
- Levi Lucio (McGill University, Canada)
- Arend Rensink (University of Twente, Netherlands)
- Rick Saley (University of Toronto, Canada)
- Martina Seidl (University of Linz, Austria)
- Gabriele Taentzer (Philipps-Universität Marburg, Germany)
- Javier Troya (Vienna University of Technology, Austria)
- Antonio Vallecillo (Universidad de Málaga)

# Agenda VOLT 2015

**ECMFA Keynote 09:00 - 10:30**

**Morning Break 10:30-11:00**

**VOLT Session 1 11:00 - 12:30**



*Welcome*

Manuel Wimmer

11:00 - 11:10



*Temporal Logic Specification and Analysis for Model Transformations*

Sobhan Yassipour Tehrani and Kevin Lano

11:10 - 11:30



*Modular and Reusable Verifier Design through Intermediate Verification Language*

Zheng Cheng, Rosemary Monahan and James Power

11:30 - 11:45



*UML and OCL Transformation Model Analysis: Checking Invariant Independence*

Martin Gogolla and Frank Hilken

11:45 – 12:00



*Verification of VOLT-2015 Cases in Flora-2*

Muzaffar Igamberdiev, Georg Grossmann and Markus Stumptner

12:10 - 12:15



*Model Transformation Semantic Analysis by Transformation*

Kevin Lano, Shekoufeh Kollahdouz Rahimi and Sobhan

Yassipour Tehrani

12:15 - 12:30

**Lunch 12:30 - 14:00**

**TAP Keynote 14:00 - 15:30**

**Afternoon Break 15:30 – 16:00**

**VOLT Session 2 16:00 - 18:00**



Invited Talk:

*Analysis Techniques for Graph Transformation Systems*

Gabriele Taentzer

16:00 - 17:00



Discussions in working groups

17:00 - 17:45



Presentation of results of working groups & Closure

17:45 - 18:00