WELCOME

Winter School on Engineering & Provisioning of Cloud Applications - Research and Entrepreneurship

Samuel Kounев
Würzburg, Feb 17th, 2015

RELATE FP7 Marie Curie ITN
Trans-European Research Training Network on Engineering and Provisioning of Service-Based Cloud Applications
Welcome to Würzburg
University of Würzburg

- Originally founded in **1402**, permanently reopened in **1582**
- Part of the U15 group of research-intensive German universities
- 14 Nobel laureates
- 2013/2014: 26,725 students
University of Würzburg
Agenda

- Overview of the RELATE Project
- Winter School Program
Project Consortium

**RELATE FP7 Marie Curie ITN**
Trans-European Research Training Network on Engineering and Provisioning of Service-Based Cloud Applications

- Interdisciplinary Research Training Network
- Funding 29 Researchers; Total Budget: 5,088,156.00 €

Associated Partners

[Logos of associated partners]

RELATE Winter School, Feb 17-20, 2015, Würzburg
Funded Researchers

- **29 RELATE fellows from 16 different countries**
  - 23 Early Stage Researchers (ESR)
  - 6 Experienced Researchers (ER)

### Nationalities

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### Graph

- **85%** for ESR
- **15%** for ER
Events and Meetings

- 5 Multi-Skills Training Camps
- 12 Open Excellence Workshops
- 13 Supervisory Board Meetings
- 2 International Workshops
  - HotTopiCS 2013 co-located with ICPE 2013
  - RELATE Winter School 2015
- 14 local research training events
- 39 secondments
2012: MSTC and Mid-term Review in Karlsruhe

Karlsruhe, March 2012: 1st Multi-Skills Training Camp at KIT

Karlsruhe, December 2012: Mid-Term Review Meeting
2013: MSTC in Prague and London

Prague, April 2013
3rd Multi-Skills Training Camp at Charles University Prague

London, Oct 2013
4th Multi-Skills Training Camp at King’s College London
2014: MSTC in Rennes

5th Multi-Skills Training Camp, held in Rennes, 25-27 June 2014
RELATE Research Map

Cloud Environments

- Customer-Driven Service Evaluation & Selection
  - Self-Management
  - Adaptation Policies
  - Resource Management
  - Reservation Protocols
  - Provisioning

- Virtualized Network Modeling & Management

- Data Centre Infrastructure

Model-driven Service Engineering

- Model-Driven Service Design & Analysis
- Application Portability
- Migration Support
- Runtime Adaptation & Verification
- Service Composition

Run-time Service Management, Optimization and Adaptation

Heterogeneous Environments

- Ad-hoc Networks, Mobile Cloud

Cross-cutting Concerns: Dependability, Performance and Trust

Software Layer

Platform Layer

Infrastructure Layer

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Publications

- Books/Chapters: 7
- Conferences: 46
- Workshops: 22
- Journals: 10
- Technical reports: 14
Selected Fellow Awards


- **SPECtacular Award 2013** (A. Milenkoski) from the Standard Performance Evaluation Corporation (SPEC), Prague, Czech Republic, 2013.

- **Best Paper Award** (R. Dautov) at DSC 2012, Thessaloniki, Greece, 2012.

- **Best Poster Award** (R. Dautov) at 9th Summer School on Ontology Engineering and the Semantic Web, Cercedilla, Spain, 2012.

- **Best St. Paper Award** (K. Chatziprimou) at IEEE CloudCom 2013, Bristol, UK.

- **2nd Place at ACM Student Research Competition** (I. Gerostathopoulos) at ACM/IEEE MODELS 2014, Valencia, Spain.

- **3rd Place at ACM Student Research Competition** (A. Verdejo) at ACM/IEEE MODELS 2014, Valencia, Spain.
More at http://www.relate-itn.eu

RELATE ITN

RELATE FP7 Marie Curie ITN
Trans-European Research Training Network on Engineering and Provisioning of Service-Based Cloud Applications

RELATE

The FP7 Marie Curie Initial Training Network "RELATE" provides an opportunity for young researchers to study the latest technologies, platforms and tools in the area of engineering and provisioning of service-based Cloud applications. The ITN consists of seven leading European research institutes and five associated partners. The ITN organizes regular workshops and summer schools, so that the trained Early Stage Researchers (ESRs) and Experienced Researchers (ERs) can exchange research experience, insights and ideas. A total of 19 fellows, 15 ESR fellows who are registered for PhD degrees and four ER fellows, have been recruited so far (for open positions please see the link above). Through an integrative and multidisciplinary research approach, RELATE promotes the advancement of the state-of-the-art in the related areas of model-driven development of Software-as-a-Service (SaaS) applications, formal methods, service-based mash-ups and application integration, security and performance of SaaS applications, as well as quality management and business model innovation.

List of categories for this page:

RELATE ITN
Agenda

- Overview of the RELATE Project
- Winter School Program
Program Overview

Tuesday
February, 17

08:00
Registration

09:00
Welcome + RELATE Report

10:00
Research Management Session
Michael Klein (CAS)

11:00
Invited Talk
Harald Müller (SAP)

12:00
Lunch (1 hour)

13:00
Invited Talk
Heiko Koziolek (ABB)

14:00
Fellows’ Presentations

15:00
Coffee Break (30 mins)

16:00
Fellows’ Presentations

17:00
Fellows’ Presentations

18:00
Dinner combined with wine tasting

Wednesday
February, 18

08:30
Project: DIVERSIFY

09:30
Project: Heads

10:30
Project: Broker@Cloud

11:30
Project: CloudScale

12:00
Lunch (1 hour)

13:00
Project: MODAClouds

14:00
DevOps Presentation

Thursday
February, 19

08:30
Project: PaaSage

09:30
Project: Artis

11:00
Ent. Day

12:00
Ent. Day

13:00
Social Event

14:00
DevOps Meeting

16:00
DevOps Meeting

Friday
February, 20

08:30
Ent. Day

10:00
Ent. Day

10:45
Ent. Day

11:00
DevOps Meeting

12:30
Lunch (1 hour)

13:30
Ent. Day

16:00
Ent. Day
Invited Keynote Speakers

   Heiko Koziolek, ABB Corporate Research, Principal Scientist and Global Research Topic Coordinator, Industrial Software Technologies

2. Mittwoch, 18.02. 11:30:
   "Software Products vs. Cloud Services“
   Harald Müller, Vice President and Head of Cloud Management, SAP SE, Original Chief Product Owner for the SAP HANA Cloud Platform
Related Project Presentations
Related Project Presentations

1. **HEADS**: Heterogeneous and distributed services for the future computing continuum

2. **PaaSage**: Model-based cloud platform upperware

3. **Broker@Cloud**: Continuous quality assurance and optimization for cloud brokers

4. **DIVERSIFY**: Ecology-inspired software diversification

5. **ARTIST**: Advanced software-based service provisioning and migration of legacy software

6. **MODAClouds**: Model-driven approach for design and execution of applications on multiple clouds

7. **CloudScale**: Scalable service engineering
Mission: foster and facilitate research in combining measurement-based application performance management (APM) and model-based software performance engineering (SPE) activities for business-critical application systems.

http://research.spec.org/devopswg/
Enterpreneurship Day

Organizer: Spiros Alexakis (CAS Software AG, Karlsruhe)

Start-Up activities + initiation of intra- and extra-organisational innovation

Invited Speakers

1. Dr. Wassili Kazakos, Director Marketing & Sales, disy Informationssysteme GmbH

2. Anne Siebold, Start Up consultant

3. Dimitris Tsigos, President of YES – European Confederation of Young Entrepreneurs

4. Anmeldung: Saskia.Zocher@kit.edu
ENJOY!

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