



Breakout 3: Advanced Software Engineering, Open Source of Software Prototyping

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Stefan Wesner, University Ulm & Coordinator, CACTOS

Projects & presenters

Call 8 Lightning Talks

- ◆ MIDAS - Libero Maesano, Simple Engineering France
- ◆ MODAClouds - Elisabetta Di Nitto, Politecnico di Milano
- ◆ OSSMETER - Nicholas Matragkas, University of York
- ◆ PROSE - Alfredo Matos, Caixa Mágica Software
- ◆ RISCOSS - Angelo Susi, FBK
- ◆ U-QASAR - Aitor Elorriaga, Innopole

Call 10 Lightning Talks

- ◆ CACTOS - Stefan Wesner, University Ulm
- ◆ Mondo - Dimitris Kolovos, University of York
- ◆ S-Case - Isabel Matranga, Engineering
- ◆ ORBIT - Andreas Menychtas, National Technical University of Athens

Top 5 R&D Challenges

- ◆ Methodologies, design and implementation approaches to develop for the Cloud from scratch rather than migration of legacy applications
- ◆ Cover all aspects of requirements: functional, non-functional, security[?]
- ◆ Clear and cross-platform definition for “service quality”
- ◆ Operating in heterogeneous environments
- ◆ Business Continuity / Fault Tolerance / Robustness

Top 5 Cross cutting themes

- ◆ Software “Repository” and “Collaboration” Space
- ◆ Assessment and Selection of appropriate Licensing and Business Models
- ◆ Assessment Software Quality
- ◆ Assessment of Service Implementations Quality
- ◆ Cope with the platform, application and service behaviour variety

Top 5 New collaboration opportunities and new ideas

- ◆ Selection of appropriate Licensing and Business Models (Prose / Riscoss)
- ◆ Align the metrics and methodologies used for testing, assessment, validation (MIDAS / U-QASAR / OSSMETER / RISCOSS)
- ◆ Modelling application behaviour, understand how they will perform on different platforms/hardware (MONDO / CACTOS / MODAClouds)
- ◆ New projects as potential test users of platforms/results e.g. for open source platforms/licensing & risk assessment platforms (Prose / RISCOSS / MIDAS / U-QASAR)
- ◆ Unify/Connect the various platforms (???)[?]

A view to the future: A vision of what the interoperable cloud ecosystem will look like in 2016

- ◆ Predictability, Manageability of large-scale distributed applications
- ◆ Emerging behaviour of complex and distributed applications
- ◆ Methodologies, design and implementation approaches to develop for the Cloud from scratch rather than migration of legacy applications
- ◆ Achieve Interoperable Interfaces through Open Standards