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

Andreas Menychtas, National Technical University of Athens & ORBIT
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