



European Software Services and Systems Research: Results and Challenges

Workshop on
Zurich, Switzerland
June 5, 2012

<http://www.s-cube-network.eu/icse>



Call for Participation

The rapid evolution of software technology has brought monumental changes to virtually every market sector and has created enormous opportunities for innovation. One such opportunity is developing innovative systems through the composition of software services available over the Internet. Those services have the power to provide utility to users in a much more dynamic and flexible way than is possible with traditional software technology. However, service-oriented systems and their corresponding software services require fundamental changes to the way software is developed, deployed and maintained. Software that constitutes a service-oriented system is no longer owned by one single organization but is distributed and shared amongst many organizations. This distributed ownership opens up a whole range of research challenges, including the design, evolution, adaptation and quality assurance of service-oriented systems.

The S-Cube@ICSE workshop will outline and demonstrate **results of fundamental research** carried out within S-Cube, the European Network of Excellence on Software Services and Systems. S-Cube brings together 33 research organizations across Europe from disciplines extending beyond traditional realms of software engineering, including cloud computing, business process management and service-oriented computing.

The workshop will also serve as a springboard to discuss **software engineering research challenges for future service-oriented systems**. Future software technology and methods will need to cope with trends such as the convergence of the Internet of Things and services; novel life-cycle models where the boundary between design and runtime will increasingly blur; online quality prediction and proactive adaptation; as well as novel architectural styles for large-scale, long-living service-oriented systems.

Preliminary Programme

The workshop will showcase **research outcomes** on software services and systems research, as well as provide an outlook and discussion of future **research challenges** on software services and systems.

The workshop will be organized into four topical sessions as follows:

- **Service life-cycle and software engineering**
- **Service technology foundations**
- **Multi-layer and mixed-initiative monitoring and adaptation**
- **Online service quality prediction for proactive adaptation**

Organising Committee

Andreas Metzger,
Paluno (Ruhr Institute for Software
Technology), U Duisburg-Essen, Germany

Klaus Pohl,
Paluno, (Ruhr Institute for Software
Technology), U Duisburg-Essen, Germany

Mike Papazoglou,
ERISS, U Tilburg, The Netherlands

Program Committee

Sudhir Agarwal, KIT, DE

Marco Aiello, U Groningen, NL

Dimitris Dranidis, SEERC, GR

Xavier Franch, UP Catalunya, ES

Sergej Gorlatch, U Münster, DE

Paola Inverardi, U L'Aquila, IT

Freddy Lecue, IBM Research, IE

Philippe Massonet, CETIC, BE

Cesare Pautasso, U Lugano, IT

Antonio Ruiz, U Sevilla, ES



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