Message from the Chairs

PESOS 2015

Welcome to the 7th International Workshop on Principles of Engineering Service-Oriented and Cloud Systems (PESOS 2015). This year, PESOS was held in Florence, Italy on May 23rd, 2015, in conjunction with ICSE 2015.

Continuing the special theme at PESOS last year, the 7th edition of the PESOS workshop focuses on “Principles and Practices for Engineering Collaborative Services in the Cloud”. The Cloud computing paradigm is having a significant impact on the way modern software is designed, developed, deployed and governed. In particular, the scale and readily accessible nature of the Cloud opens new opportunities for not only individual applications, but also complete processes that require collaboration among such systems. Even though cloud platforms and infrastructures are typically designed to scale on demand, the questions are (i) whether this automatic elasticity translates to all services deployed on them, and (ii) whether collaboration amongst the services on (multiple) Cloud be managed elastically. Other qualities of concern and interest in this environment include monitorability, manageability, privacy, security, availability and reliability. Collaborative services in the Cloud will have to be better engineered, to either take advantage of the qualities offered by cloud platforms and infrastructures or to account for lack of full control over important quality attributes. There are therefore a number of open research challenges related to design, development, deployment, use, and integration of software, human and collaborative services in the Cloud.

We have invited contributions from researchers and industry practitioners on recent developments, novel applications and scenarios, as well as methods, techniques, experiences, and tools to support the engineering and use of service-oriented systems in the cloud. Each paper was reviewed by two or three Program Committee members and ranked on its technical depth, presentation quality and research contribution to the field.

The papers presented in this year’s PESOS well represent the theme of the workshop. The topics included: the problem of formally modelling and describing elastic behaviour of Cloud systems (“A Pattern-Based Formalization of Cloud-Based Elastic Systems” by Dustdar et. al.), privacy enforcement issues over different geographical locations (“Architectural Runtime Models for Privacy Checks of Cloud Applications” by Schmieders et. al.), performing dynamic upgrades in multi-tenant SaaS Cloud applications (“Continuous Evolution of Multi-tenant SaaS Applications: A Customizable Dynamic Adaptation Approach” by Gey et. al.), development platforms and tools for high quality Cloud applications (“Enabling Collaborative Development in an OpenStack Testbed: the CloudWave Use Case” by Bruneo et. al.), and configurability of telecommunication processes (“An Architecture for Self-reconfiguration of Convergent Telecom Processes” by Ordóñez et. al.).

Besides paper presentations, PESOS 2015 had a keynote speaker, demonstration and plenty of open discussion. Up-to-date information on the workshop, accepted papers and full program can be found at https://sse.uni-due.de/pesos2015.
The PESOS workshop series always have enjoyed strong support from the software engineering and services communities, and this year was no exception. We would like to thank the members of the steering committee and the program committee for the support and advice throughout the workshop organisation and reviewing periods. We hope to continue the success of this workshop series with the help of the PESOS community.

Muhammad Ali Babar, Hye-young Paik, Malolan Chetlur, Michael Bauer and Amir Molzam Sharifloo
PESOS’15 Co-chairs

\[^1\] Amir’s work for the workshop has been funded by European Union's Seventh Framework Programme FP7/2007-2013 under grant agreement 610802 (CloudWave).