Workshop on Engineering Service-Oriented Applications and Cloud Services
Introduction to the 13th International Workshop on Engineering Service-Oriented Applications and Cloud Services
(WESOACS’17)

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The International Workshop on Engineering Services-Oriented Applications and Cloud Services (WESOACS) is a long-established forum (formerly known as WESOA) for innovative ideas from research and practice in the field of software engineering for modern service-oriented application systems. This year, the 13th meeting took place on 13th November in Malaga, Spain.

Service-oriented applications play an important role in many areas, such as enterprise computing, cloud computing, and the Web. While there is agreement on the main principles for designing and developing application systems based on distributed software services, methods and tools that support the development of such applications are still the subject of intense research. These research topics include software service life cycle development methodologies, service-oriented enterprise architectures, service-oriented analysis and design, and in particular service engineering technologies for cloud computing environments in general, and more specifically for current trends in cloud-based applications such as intelligent cyber-physical systems.

Currently, there is a shift in this area to so-called “DevOps” approaches of software development in which software service development and operations are continuously and inextricably linked to achieve faster application delivery with automated release and deployment. Agile processes, microservices, continuous delivery, containers and cloud technologies are just some of the popular topics that contribute to the current IT transformation in this context.
The WESOACS technical program included ten research papers in four thematic sessions. The first one grouped recent developments in architectures of cloud frameworks (George Feuerlicht, University of Economics, Prague) and for pattern-based control of privacy policies in the cloud (Stefan Schönen, University of Duisburg-Essen). In addition, case studies on current workflow management systems (Jörg Lenhard, Karlstad University) and on migration between web service API technologies (Maximilian Vogel, University of Applied Sciences Karlsruhe) were presented.

A focus of this year’s contributions was on service-oriented development of intelligent systems. This included work on access control of web-based smart home platforms (Sebastian Werner, TU Berlin), collaborative environments for business processes with social interaction (Andrea Delgado, University of Uruguay) and interactive assistance systems for multimodal mobility in smart cities (Christian Kuster, TU Berlin).

In addition, new approaches to the development of software services for cyber-physical systems were discussed. Here, participants presented approaches for event processing of sensor data for sustainable waste management (Juan Boubeta-Puig, University of Cadiz), knowledge-based service components in production systems (Christopher Haubeck, University of Hamburg) and the control of intelligent devices by business process management systems (Robert Wehlitz, University of Leipzig).

In the course of the one-day workshop, the participants had ample opportunity for professional exchange and networking, so that the 13th edition of the event can once again be regarded as a complete success.
Organization

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