Overview

Service-Oriented Architecture (SOA) and service-oriented systems, which are built using the SOA paradigm, are now in the stage of widespread adoption, at least according to Gartner’s Hype Cycle of Emerging Technologies. Due to the fact that some of the standards for service integration have stabilized, and driven by IT cost savings, organizations are starting to incorporate external software services into their systems, some of which are hosted in the cloud. From a provider perspective, many commercial companies such as Oracle, SAP, Intuit, and Netflix either have cloud-based offerings of their products or run their business completely in the cloud.

The special theme of the 5th edition of the PESOS workshop is “Service Engineering for the Cloud.” Cloud Computing is shaping the way that organizations acquire and use systems — software-as-a-service (SaaS) model — and how they develop and deploy systems — platform-as-a-service (PaaS) and infrastructure-as-a-service (IaaS) models. Even though cloud platforms and infrastructures are typically designed to scale on demand, the question is whether this automatic elasticity translates to all services deployed on them.

Topics

PESOS 2013 seeks contributions addressing, but not limited to, the following topics related to software engineering for services in the cloud:

- Service engineering for elasticity, scalability, monitorability, and other attributes expected of cloud services
- Methods and tools for design-time software engineering support for desired runtime behavior
- Management of service-oriented systems in the cloud
- Adaptation and evolution of service-oriented systems
- Service personalization and context-aware provisioning
- Service dependability, survivability, reliability and resilience
- Trust, security, and privacy in service-oriented systems
- Verification and Validation of service-oriented systems
- Quality of service (QoS) and Service-level Agreements (SLAs)
- System migration to service-oriented systems in the cloud
- Service delivery models for mobile users
- Service-oriented systems supporting cloud-based provisioning
- Case studies and industry experiences

In addition, PESOS 2013 will continue “The Quest for Case Studies.” Started at PESOS 2012 as a special session, we are now making it an essential part of the workshop as the forum for researchers and practitioners sharing this vision and willing to contribute with their effort and experience. The goal is to create the reference set of case studies for the research community in service-oriented systems, hosted on a publicly available repository: http://www.s-cube-network.eu/use-cases.

Paper Submission and Publication

The submission and review process will be done using EasyChair (https://www.easychair.org/conferences/?conf=pesos2013). Submissions must follow the IEEE formatting guidelines. All accepted papers will be published in the conference electronic proceedings and in both ACM Digital Library and IEEE Digital Library.

All contributions will be reviewed and evaluated based on originality, technical quality and relevance to the workshop theme. The page limit for regular papers is 10 pages and 2 pages for case study descriptions. In addition, accepted case study submissions must commit to place all case study artifacts in the public repository.

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Important Dates

Paper Submission: February 7, 2013
Acceptance Notification: February 28, 2013
Camera-Ready Copy: March 7, 2013