Introduction to the Second International Workshop on Performance Assessment and Auditing in Service Computing (PAASC 2012)

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Abstract. The main goal of the International Workshop on Performance Assessment and Auditing in Service Computing (PAASC) is to bring together researchers and industry representatives, providing them the opportunity to present and discuss research and development results, lessons learned, and advance new ideas on topics in the area of performance assessment, business modeling and auditing in service computing. Technical papers of high quality have been submitted. Four papers have been accepted and presented at the PAASC 2012 International Workshop.

1   Scope

The PAASC series addresses challenges in the area of auditing, performance assessment and business modeling in SOA. The main goal of the International Workshop on Performance Assessment and Auditing in Service Computing (PAASC) is to bring together researcher, practitioners and industry representatives, providing them the opportunity to present recent research and development results, discuss lessons learned, and advance novel topics in the area of performance assessment, business modeling and auditing in service computing and SOA [1].

Several research questions in this area still remain unanswered, such as: How to quantify the economic benefits of SOA? How to predict performance in SOA? Which are the business models for SOA? Which are the main decision criteria for service selection in services' environments? Which are the most relevant economic theories to support the formal definition and economic performance in SOA? How can SOA be assessed? The PAASC International Workshop aims at addressing such research topics.

Relevant topics for the PAASC 2012 International Workshop included:

- Service computing supporting (economic) performance assessment in different domains (e.g., long term digital preservation domain) or industry sectors (e.g., healthcare, financial).
- Economics of service computing/ SOA (e.g., cost models, cost-benefit analysis)

- Business modeling in SOA (e.g., operational processes and policies, value configuration, technical cost modeling, formal modeling for core aspects on business in SOA)
- Audit in SOA
- Quality of services
- Monitoring and evaluation of services/ SOA
- Audit of services in the cloud
- Strategies and strategic decisions for services (e.g., concerning optimal resource utilization, service selection criteria)
- Analytics of services
- Methods, frameworks and methodologies synthetized for services' performance assessment (e.g., performance indicators, benchmarking methods, frameworks)
- Life-cycle management aspects of service computing
- Self-management aspects for services (e.g., instant management of assigned resources)
- Theories and approaches synthetized for services' representation and formal modeling
- Performance predictability in SOA.

2   Workshop Event

The PAASC 2012 International Workshop comprised four articles, grouped in two sessions.

The first session included the following contributions:

- *Definition of a Framework Supporting High Level Reliability of Services*, Firmino Silva and Claudia-Melania Chituc.
- *A Service-Oriented Approach to Assess the Value of Digital Preservation*, Claudia-Melania Chituc and Petra Ristau.

The second session (MoPoC[1] session) included two contributions:

- *Specification and Deployment of Distributed Monitoring and Adaptation Infrastructure*, Christian Inzinger, Benjamin Satzger, Waldemar Hummer and Schahram Dustdar.
- *Introducing the Vienna Platform for Elastic Processes*, Stefan Schulte, Philipp Hoenisch, Srikumar Venugopal and Schahram Dustdar.

Workshop Chair and Organizer:

Claudia-Melania Chituc, Assistant Professor at the Informatics Engineering Department, Faculty of Engineering, University of Porto, Portugal.

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[1] The two articles presented in this session have been transferred from the 1st International Workshop on Monitoring and Prediction of Cloud Services (MoPoC).

Reference

1. Chituc, C.-M.: Introduction to the First International Workshop on Performance Assessment and Auditing in Service Computing (PAASC 2010). In: Maximilien, E.M., Rossi, G., Yuan, S.-T., Ludwig, H., Fantinato, M. (eds.) ICSOC 2010 Workshops. LNCS, vol. 6568, pp. 1–3. Springer, Heidelberg (2011)