Preface

Today, many providers of cloud services (IaaS, SaaS, PaaS, DaaS, etc.) emphasize the many benefits of outsourcing applications into a private or public cloud. For instance, cloud computing reduces spending on technology infrastructure, improves accessibility, etc. Moreover, cloud architectures are resilient in scaling IT resources up and down on-demand and cloud services are able to adapt to dynamically changing business requirements.

In other words, it is suggested that cloud computing represents a mature technology that is ready to be massively used; however, cloud computing still requires extensive research. Many actors of academia and industry are concerned about cloud security, privacy, availability, data protection, interoperability, etc.

The TLDKS special issue on Cloud Computing is devoted to disseminating original research contributions. Topics of interest include, but are not limited to:

– Cloud applications, infrastructures, and platforms
– Service-oriented architectures in cloud computing
– Cloud resource selection, composition, provisioning, and allocation
– Cloud service development process modelling
– Service ontologies and knowledge management
– Personalization of cloud services
– Formal models and methods for cloud computing/services computing
– Security and privacy for the cloud
– Advancing cloud SLA management, business models, and pricing policies
– Semantic interoperability techniques for heterogeneous cloud services
– Multi-clouds/federated clouds
– Innovative cloud-based architectures and techniques for big data analytics
– Client- and user-community-centric cloud computing
– Large-scale sensor systems/large-scale cyber-physical systems
– Mobile clouds
– Location-based services, presence, availability, and locality

Reviewers were asked to provide a clear and justified recommendation, whether to accept a paper without or with minor changes, to request a major revision, or to reject the paper. Authors of the papers for which a major revision was requested in the first round were invited to submit the revised version for a second reviewing round. This volume contains five fully revised selected regular papers.

We would like to express our great thanks to the editorial board and the external reviewers for thoroughly reviewing the submitted papers and ensuring the high quality of this volume. Special thanks go to Gabriela Wagner for her availability and her valuable work in the realization of this TLDKS volume.

August 2016   Klaus-Dieter Schewe
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