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Cloud Computing, Security, Privacy in New Computing Environments

7th International Conference, CloudComp 2016
and First International Conference, SPNCE 2016
Guangzhou, China, November 25–26, and December 15–16, 2016
Proceedings

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Preface

In recent years, cloud computing technology has been widely used in many domains, such as manufacture, intelligent transportation system, and finance industry. Examples of cloud services include, but are not limited to, IaaS (Infrastructure as a Service), PaaS (Platform as a Service), and SaaS (Software as a Service). The underlying cloud architecture includes a pool of virtualized computing, storage, and networking resources that can be aggregated and launched as platforms to run workloads and satisfy their service-level agreement (SLA). Cloud architectures also include provisions to best guarantee service delivery for clients and at the same time optimize efficiency of resources of providers. Examples of provisions include, but are not limited to, elasticity through up/down scaling of resources to track workload behavior, extensive monitoring, failure mitigation, and energy optimizations.

The 7th EAI International Conference on Cloud Computing (CloudComp 2016) intended to bring together researchers, developers, and industry professionals to discuss recent advances and experiences in clouds, cloud computing, and related ecosystems and business support. The conference also aims at presenting the recent advances, experiences, and results obtained in the wider area of cloud computing, giving users and researchers equally a chance to gain better insight into the capabilities and limitations of current cloud systems.

CloudComp 2016 was held during November 25–26, 2016, in Guangzhou, China. The conference was organized by the EAI (European Alliance for Innovation). The Program Committee received over 40 submissions from six countries and each paper was reviewed by at least three expert reviewers. We chose 10 papers after intensive discussions held among the Program Committee members. We appreciate the excellent reviews and lively discussions of the Program Committee members and external reviewers in the review process. This year we chose two prominent invited speakers, Prof. Honggang Wang and Prof. Min Chen.

September 2017

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Preface

The existing computing models and computing environments have changed immensely due to the rapid advancements in mobile computing, big data, and cyberspace-based supporting technologies such as cloud computing, Internet of Things and other large-scale computing environments. For example, cloud computing is an emerging computing paradigm in which IT resources and capacities are provided as services over the Internet. It builds on the foundations of distributed computing, grid computing, virtualization, service orientation, etc. Cloud computing offers numerous benefits from both the technology and functionality perspectives such as increased availability, flexibility, and functionality. Traditional security techniques are faced many challenges in these new computing environments. Thus, efforts are needed to explore the security and privacy issues of the aforementioned new environments within the cyberspace.

The First EAI International Conference on Security and Privacy in New Computing Environments (SPNCE 2016) intended to bring together researchers, developers, and industry professionals to discuss recent advances and experiences in security and privacy of new computing environments, including mobile computing, big data, cloud computing, and other large-scale computing environments.

SPNCE 2016 was held during December 15–16, 2016, in Guangzhou, China. The conference was organized by the EAI (European Alliance for Innovation). The Program Committee received over 40 submissions from six countries and each paper was reviewed by at least three expert reviewers. We chose 21 papers after intensive discussions held among the Program Committee members. We really appreciate the excellent reviews and lively discussions of the Program Committee members and external reviewers in the review process. This year we chose three prominent invited speakers, Prof. Victor Chang, Prof. Fernando Pérez-González, and Prof. Dongdai Lin.

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