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The Hasso Plattner Institute (HPI) invites to the sixth edition of the yearly scientific symposium on the topic "Operating the Cloud". The Future SOC Lab, a cooperation of HPI and the industry partners Hewlett Packard Enterprise, Dell EMC, Fujitsu, and SAP, provides researchers with free of charge access to a complete infrastructure of powerful hardware and software. Serving as the foundation for state-of-the-art approaches in Data Science applications, cloud computing remains as one of the main research areas at the Future SOC Lab.

Cloud computing is experiencing a growth in attention world-wide. The necessity emerges from ever increasing amounts of data that must be stored and computed by companies of almost any area of business. Additionally, even in our daily private lives we utilize cloud services to synchronize files, keep track of our appointments, etc. However, we are still observing a gap between results of academic research and practical implementations cloud operators use. It is our goal to provide a persistent platform for representatives of academia and industry to bridge this gap.

The symposium aims at connecting industry and academia by inviting speakers and calling for paper presentations. On this occasion, we seek for research papers and practitioners' reports in the fields of operating, administrating, and utilizing cloud systems. Please submit your contribution to the electronic submission system we use (see *Further Information*). Accepted submissions will be presented at the symposium in Potsdam. "Operating the Cloud" aims to present a versatile compilation of talks which allow a deep exchange of experience and knowledge.

TOPICS

We seek submissions from industry and academia. Topics include but are not limited to:

- Data Science & Machine Learning
- Big data cloud services
- Fog & Edge Computing
- Cloud application scalability and availability
- Capacity planning for cloud applications
- Dynamic capacity and performance management
- Cloud-ilities (scalability, availability, reliability, elasticity)
- Physical and virtual hardware on demand
- Network function virtualization (VFN) and software-defined networking (SDN)
- Cloud middleware frameworks
- Cloud applications performance and monitoring
- Security and cyber security in the cloud
- Cloud optimization and automation
- Global data centers and disaster tolerance
- Combining public and private cloud and on-premise solutions

SUBMISSION

Authors are invited to submit high quality unpublished research work that should not exceed 14 pages (including all text, references, appendices, and figures) conforming to the HPI technical report style. Papers must be written in English and must be submitted in PDF format using EasyChair. Submitted papers will receive at least three reviews. Accepted papers will be published after the workshop as an HPI technical report. Submission implies the willingness of at least one of the authors to attend the workshop and present the paper.

IMPORTANT DATES

Submission Deadline:	September 21, 2018
Author notification:	October 15, 2018
Camera-ready version:	November 5, 2018
Scientific symposium:	November 13, 2018

FURTHER INFORMATION

Symposium webpage:	https://www.hpi.de/otc
Symposium email:	cloud-symposium@hpi.de
Submission via:	https://easychair.org/conferences/?conf=otc2018
Submission template:	https://www.dcl.hpi.uni-potsdam.de/media/hpitr_otc.zip

