



First International Workshop on Cloud Native Applications Design and Experience – CNAX 2016
 Co-located with the 10th IEEE Symposium on Service-Oriented Systems – SOSE 2016
 Exeter College, University of Oxford, UK, 29 March - 2 April 2016

Navigation...

- [Workshop movitation](#)
- [Workshop topics](#)
- [Submission](#)
- [Committee](#)
- [Background information](#)

Key information

Please remember the following key information about CNAX 2016.

1. Submission deadline: 21.12.2015
2. Notification of acceptance: 18.01.2016
3. Camera-ready submission and registration: 01.02.2016
4. Paper format: 6 pages IEEE.
5. Paper submission system: [EasyChair CNAX 2016](#)

Workshop motivation

As more and more applications and data are shifted to online hosting services, predominantly at commercial cloud providers (e.g., Amazon, Microsoft, Google IBM, and Huawei), the adaptation of applications to these environments becomes a major concern. Risks include temporary or permanent unavailability of services, low platform resilience, sudden popularity spikes (i.e., the Slashdot effect), overpayment due to not exploiting flexible hosting options as well as unauthorised access to the data. New application architectures, so-called cloud native applications based on microservices, are therefore becoming more popular. The fine-grained decoupling of application parts with partial offloading into the cloud becomes a major concern for developers and development tooling providers. The industrial relevance of this topic is on the rise, in particular with the recent formation of the Cloud Native Computing Foundation. Edge topics such as user-controllable stealth computing across hybrid clouds are already on the horizon of researchers. The aim of this workshop is to bring together researchers and engineers to propose and demonstrate novel methods of safely running applications, processing data and offering services on industry-leading cloud platforms.

Workshop topics

Authors are invited to submit original unpublished research manuscripts, experience reports and experimental results that demonstrate current research in all areas of cloud applications. Topics of interest include but are not limited to:

- cloud-native application designs
- application decomposition into microservices
- service-oriented systems to enable and support cloud-native applications
- deployment with orchestrated containers
- resilient cloud/client computing
- cloud operations analytics
- automated recovery of cloud platforms
- chaos engineering
- high availability and reliability hosting schemes
- resilient and fault-tolerant storage and computation
- user control and feedback during the entire application lifecycle
- innovative use of PaaS and IaaS interfaces
- multi-service programming techniques
- multiplexed, dispersed and stealth computing approaches
- combined compute and storage service systems for data-intensive apps
- pro-active reliability concepts, monitoring and anomaly detection
- self-organisation and self-management for cloud services
- application and data offloading

Submission

Dates:

- Paper submission: December 21, 2015
- Notification of acceptance: January 18, 2016
- Camera-ready submission: February 1, 2016
- Author and early registration: February 1, 2016

Paper format:

Workshop papers are a maximum of 6 pages in length (in IEEE format). Submissions should be structured as technical papers in the form of PDF files. They must represent original unpublished content which is not currently under review for any other conference, workshop or journal.

All papers will be peer reviewed by at least three programme committee members. The evaluation will be based on originality, relevance of the problem to the workshop topics, technical strength, quality of results, and clarity of the presentation.

The publication of the workshop proceeding with all accepted papers will be by the IEEE and will appear in the same volume as the main conference IEEE SOSE 2016. At least one author of each accepted submission must attend the workshop and all workshop participants must pay the IEEE SOSE 2016 conference registration fee.

Paper templates: [IEEE Templates](#)

Paper submission system: [EasyChair CNAX 2016](https://www.easychair.org/conferences/?conf=cnax2016) (<https://www.easychair.org/conferences/?conf=cnax2016>)

Committee

Organisers:

- Giovanni Toffetti Carughi, Zurich University of Applied Sciences, Service Prototyping Lab, Switzerland (e-mail: toff@zhaw.ch)
- Jorge Cardoso, Huawei European Research Center (ERC), Germany (e-mail: jorge.cardoso@huawei.com)

Technical programme committee:

- Martin Beck, RheinMain University of Applied Sciences, Germany
[Hochschule RheinMain]
- Luiz Fernando Bittencourt, UNICAMP, Brazil
[Universidade Estadual de Campinas]
- Thomas Michael Bohnert, Zurich University of Applied Sciences, Switzerland
[Zürcher Hochschule für Angewandte Wissenschaften]
- David Breigand, IBM Research Haifa, Israel
- Andrey Brito, Federal University of Campina Grande, Brazil
- Erik Elmroth, Umeå University, Sweden
[Umeå universitet]
- Gilles Fedak, INRIA, France
- Florin Fortiș, West University of Timișoara, Romania
- Flavio Frattini, Federico II University of Naples, Italy
[Università degli Studi di Napoli Federico II]
- Sebastian Götz, Technische Universität Dresden, Germany
- Ronny Hans, Technische Universität Darmstadt, Germany
- Ryan Ko, University of Waikato, New Zealand
- Mark Little, Red Hat
- David Oppenheimer, Google
- Josef Spillner, Zurich University of Applied Sciences, Switzerland
[Zürcher Hochschule für Angewandte Wissenschaften]
- Johan Tordsson, Umeå University and Elastisys, Sweden

[Back to Contents](#)