

Call for Contributions

1. Inform the Chair

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=CLOUD+COMPUTING+2023+Special>

Please select Track Preference as **FAST-CAMS**

3. Note: *For 2023, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

FAST-CAMS: Finding a Solution to Cloud Application Maturity Security

Chairs

Andreas Abmuth¹, Bob Duncan, Rudolf Hackenberg, Magnus Westerlund

Ostbayerische Technische Hochschule Amberg-Weiden, Germany, a.assmuth@oth-aw.de

University of Aberdeen, UK, robert.duncan@abdn.ac.uk

Ostbayerische Technische Hochschule Regensburg, Germany, rudolf.hackenberg@oth-regensburg.de

Arcada University of Applied Sciences, Finland, magnus.westerlund@arcada.fi

along with

CLOUD COMPUTING 2023, The Fourteenth International Conference on Cloud Computing, GRIDs, and Virtualization

<https://www.iaria.org/conferences2023/CLOUDCOMPUTING23.html>

June 26 - 30, 2023 - Nice, Saint-Laurent-du-Var, France

During the past decade, cloud computing has led to an almost complete transformation of the IT landscape. The initial reluctance of many potential users to use cloud infrastructures due to scepticism about information security and privacy has given way to greater acceptance now that moving required services to the cloud can be achieved securely and, above all, cost-effectively compared to using self-hosted dedicated hardware.

What has proven particularly attractive is the ability to access new systems quickly without having to worry about planning ahead or accessing corporate budgets, and most importantly, the ability to scale up (or down) systems as needed. The pandemic has also been a remarkable reminder of how robust and reliable cloud services of all kinds have become. Without such robust cloud services, working from home or home schooling would not have been possible; additionally, probably not without serious negative effects on society and economy alike.

More and more companies are now using cloud services, even governments and non-profit organisations. For example, the cloud opens up opportunities for small and medium-sized enterprises to conduct business on equal footing with their larger competitors. While there we have achieved a certain robustness both in terms of information security and privacy of by now traditional cloud services aimed at use by a very large number of users with largely domain or industry-independent usage scenarios, e. g. office services or video conference systems, there are still enormous challenges, especially for services in connection with hardware access through the Internet of Things. In a modern, digitised production plant, for instance, sensor data can be aggregated and transferred to the cloud and back to optimise actuator operating parameters. Security issues can arise both on-site at the sensors and industrial control systems, which can then pose a threat to the cloud services, and vice versa.

Of particular interest to potential attackers and security personnel as well are these interfaces to or from cloud services, as great damage can be done via these – both in the cloud and possibly in several production facilities. These statements also apply comparably, for example, to medical devices that are connected to cloud services.

Basically, for all such non-traditional scenarios, it is necessary to decide at which point on the way to the cloud or back which processing of data or security/privacy measures can take place.

This special track therefore focuses on topics related to information security and privacy in cloud, fog or edge computing as well as their interfaces in the Internet of Things.

Suitable research topics for this special track include, but are not limited to, the following areas:

- Cloud Security
- Cloud Privacy
- Cloud Forensics
- Cloud Encryption
- Cloud Accountability
- Cloud Risks
- Cloud Threat Environment
- Cloud Insider Threats
- Cloud Database Issues, such as lack of immutability and poor security
- Cloud Standards Weaknesses
- Cloud Governance Challenges
- Cloud and Big Data
- Cloud and Data Analytics
- Cloud Audit Issues
- Cloud-connected IoT Systems
- Cloud Zero Trust Models
- Cloud Challenges for SMEs
- Cloud Adoption
- Cloud-Based Password Managers
- Accessibility Challenges of Cloud Usage
- User Perceptions of Cloud-Based Backups as Ransomware Mitigation
- Management Approach to Cloud Security and Privacy
- Security Challenges to Cloud, Fog or Edge Computing and Potential Solutions
- Services Computing and Security/Privacy Challenges
- Any individual elements which may be contributed towards a complete solution.
- We would also be interested in papers which address the needs of real-world applications such as: educational needs, health provision, financial institutions, central government, local government, insurance, manufacturing, energy, transport, and so on.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaaria.org]
- Presentations: slide only [slide-deck posted on www.iaaria.org]
- Demos: two pages [posted on www.iaaria.org]

Important Datelines

Inform the Chairs: As soon as you decide to contribute

Submission: May 11 (earlier, better)

Notification: May 29

Registration: June 8

Camera-ready: June 8

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=CLOUD+COMPUTING+2023+Special>

Please select Track Preference as **FAST-CAMS**

Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contacts

Andreas Aßmuth, a.assmuth@oth-aw.de

Logistics: steve@iaia.org