

## Call for Contributions

**1. Inform the Chair:** with the Title of your Contribution

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=CLOUD+COMPUTING+2018+Special>

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

### Special track

## FAST-CFP: Finding A Solution To - Cloud Forensic Problem

Chair and Coordinator: Dr Bob Duncan, University of Aberdeen, UK  
[s04rd5@abdn.ac.uk](mailto:s04rd5@abdn.ac.uk)

along with

**CLOUD COMPUTATION 2018**, The Ninth International Conference on Cloud Computing, GRIDs, and Virtualization

<http://www.iaria.org/conferences2018/CLOUDCOMPUTING18.html>

Cloud computing has been a great enabler for a great many companies and individuals in the decade or so since it gained traction. The ability to access new systems rapidly without concern for forward planning, accessing corporate budgets and in particular the ability to scale up (or down) on demand has proved particularly attractive. A great many researchers have been actively involved to ensure that systems are developed in a responsible way to ensure the security and privacy of users.

However, there remains a fundamental issue which is of great concern. Namely, that once an attacker successfully breaches a cloud system and becomes an intruder, usually escalating privileges the longer they are in the system, there is nothing then to prevent them from deleting or modifying the forensic trail. This presents a serious challenge, and in the light of forthcoming regulation from various countries, and of particular interest the forthcoming EU General Data Protection Regulation (GDPR), which has a regime of penalties which can rise up to the greater of €20 million or 4% of Global Turnover. The other challenging aspect of this legislation is that any security breach must be reported within 72 hours. For cloud users who are breached, particularly where the intruder deletes or modifies the forensic trail, this becomes a virtually impossible requirement to comply with, which can also lead to an increase in the fine levied.

Solving this problem presents a seriously difficult challenge, but without solving this problem, this leads to a serious issue with compliance on the EU GDPR and other similar legislation around the globe, which can lead to massive levels of fines being levied. Looking at the cyber breach reports regularly carried out each year by a number of security organizations, it is very clear that a great many companies are nowhere near being able to comply with this tight reporting requirement, let alone understand which records have been accessed, modified or deleted. Given that the regulation comes into effect on the 25th May 2018, it is clear that many companies are walking blind into a major disaster.

### Topics include, but not limited to:

- Cloud security
- Cloud privacy
- Cloud forensics
- Cloud encryption
- Cloud accountability
- Cloud risk
- Cloud threat environment

- Cloud insider threat
  - Cloud database issues, such as lack of immutability and poor security
  - Cloud standards weaknesses
  - Cloud audit issues
  - Management approach to cloud security and privacy
  - 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](http://www.iaaria.org)]
- Presentations: slide only [slide-deck posted on [www.iaaria.org](http://www.iaaria.org)]
- Demos: two pages [posted on [www.iaaria.org](http://www.iaaria.org)]

## Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: Nov 3, 2017
- Notification: Dec 3, 2017
- Registration: Dec 17, 2017
- Camera ready: Jan 15, 2018

*Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.*

## Paper Format

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

## Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaariajournals.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.iaariasubmit.org/conferences/submit/newcontribution.php?event=CLOUD+COMPUTING+2018+Special>

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

## 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.iaaria.org/registration.html>

## Contact

Bob Duncan, [s04rd5@abdn.ac.uk](mailto:s04rd5@abdn.ac.uk)

Logistics: [steve@iaaria.org](mailto:steve@iaaria.org)