

# Call for Contributions

## Submission:

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

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICWMC+2019+Special>

Please select Track Preference as **BigSecCloud**

Special track

## **BigSecCloud: Big Data Security for Cloud Computing**

### **Chair and Coordinator**

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along with

**ICWMC 2019**, The Fifteenth International Conference on Wireless and Mobile Communications  
June 30, 2019 to July 04, 2019 - Rome, Italy  
<https://www.iaria.org/conferences2019/ICWMC19.html>

The recent data science development such as molecular modeling, genetic sequencing, health record processing, and smart city projects demonstrated the future trends on Big data applications. Big data is a collection of huge volume of structured and unstructured data that are so large and difficult to get process using traditional databases and software technologies. Cloud computing is the most suitable solution for the management of such kind of data. In fact, it provides strong storage, computation and distributed capability in support of Big Data processing.

Due to the explosion of web-based services, unstructured data management and social media and mobile computing, the amount of data to be handled has increased from terabytes to petabytes and zetabytes in just two decades. By 2020, we are expecting a growth of 2.314 zetabytes (2 214 exabytes, where 1 exabytes = 1 billion gigabytes). Storage, management and analysis of large quantities of such data could raise significant privacy challenges. Substantially, Big Data may result from combining data from numerous sources, which may reveal the privacy of the individuals (aggregation problem).

Another security challenge of Big Data is access control. Hence, the question is how can access control policies for different types of data such as structured, semi-structured, unstructured and graph data be integrated? Furthermore, Big Data management and analytics raise another challenge, which is securing the infrastructures. In fact, most of the technologies that were proposed for the Big Data management - such as Hadoop, MapReduce, Hive, Cassandra, and Storm – present several security challenges.

Finally, due to the Cloud distribution feature, the conventional data acquisition regulation is not sufficient to meet the digital forensics evidence requirements. Substantially, it is almost impossible to seize a physical hard drive to get all the related forensics evidences. Further, it is very difficult to identify which physical hard is compromised.

### **Topics include, but not limited to:**

- Access control of big data in cloud computing
- Big data security issues in cloud computing
- Privacy in Big Data applications and services
- Digital forensics of Big Data in cloud computing

- Security models and architectures for Big Data

### **Important Datelines**

- Inform the Chair (see Contacts below): as soon as you decided to contribute
- Submission: May 4, 2019
- Notification: May 24 2019
- Registration: June 3, 2019
- Camera-ready: June 3, 2019

### **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.iaia.org](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

### **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**

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### **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**

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