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+2021+Special
Please select Track Preference as **CCSP**
3. Note: *For 2021, 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

Cloud Cyber Security and Privacy:
Readiness for the Next Decade (CCSP: RND)

Chairs and Coordinators
Dr. Bob Duncan, University of Aberdeen, UK
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along with

CLOUD COMPUTING 2021, The Twelfth International Conference on Cloud Computing, GRIDs, and Virtualization

April 18, 2021 to April 22, 2021 - Porto, Portugal

https://www.iaria.org/conferences2021/CfPCLOUDCOMPUTING21.html

During the course of the past decade cloud computing has resulted in an almost complete transformation of the IT landscape. The initial reluctance shown by many potential users to utilise public cloud infrastructure due to concerns about security and privacy has given way to greater acceptance following the ability to perform horizontal scaling securely and, in particular, for an economic cost, as compared with self-hosted dedicated hardware. As new software is created, it increasingly is designed as cloud-native solutions that can reap the benefits of the cloud. Monolithic designs are giving way to microservices, serverless, and unikernel designs, whose aim is to improve security, scaling, and cost effectiveness further. The COVID-19 pandemic also forced many people of all ages to use cloud services for video conferences, home schooling, etc., which has led to a significant increase in the number of users of cloud services.

Looking towards the coming decade, the transformation will likely not stop there and the new paradigm is already forming. As the capabilities of cloud continue to evolve and grow, rather more worryingly, so too do the capabilities of attackers. As was already seen in 2020, the increased usage caused by the pandemic made cloud services even more attractive as targets for cyber-attacks. Since new legislation and regulation is continuously being introduced, and some, such as GDPR, have exceptionally high compliance requirements coupled with a high level of punitive fines, it is necessary for companies who use cloud to take a much more serious approach to achieving compliance.

Failure to take appropriate measures to safeguard data held in the cloud will no longer be tolerated by regulators. Equally, failure to report breaches properly and timeously are also starting to be heavily punished by regulatory authorities. Looking at the current level of regulatory fines, it is clear that regulators are getting serious about enforcing better compliance. It is no longer possible for companies to sit back as see what everyone else does, now companies have to demonstrate a proactive approach if there is to be any prospect of a large reduction in the fines levied due to their efforts providing mitigation.

Issues, such as the 'Cloud Forensic Problem' will still impact on cloud systems if cloud users do not take the appropriate steps necessary to secure their own systems properly. Similarly, it is no longer possible for actors such as Cloud Service Providers to sit back and leave all security measures to cloud users as many have done before. Now, all actors are accountable and much more focus on ensuring a proper approach is used for security and privacy is required.

Topics include, but not limited to:

- Cloud security
- Cloud privacy
- Cloud forensics
- Cloud encryption
- Cloud accountability
- Cloud risk
- Cloud threat environment
- Cloud database issues, such as lack of immutability and poor security
- Cloud audit issues
- Cloud data provenance
- Management approach to cloud security and privacy
- Any individual elements which may be contributed towards a complete solution
- Cloud Security and Privacy Compliance Issues
- Security- and privacy-related topics concerning any interaction between cloud services and IoT devices (including subtopics like Industrial IoT, Medical IoT, ...)
- Advances in security and privacy for cloud services through distributed ledger technology
- 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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: March 4, 2021
- Notification: March 20, 2021
- Registration: April 1, 2021
- Camera-ready: April 1, 2021
Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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.iariasubmit.org/conferences/submit/newcontribution.php?event=CLOUD+COMPUTING+2021+Special
Please select Track Preference as **CCSP**

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.iaria.org/registration.html

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