Call for Papers

Special Session: Fog Computing: Applications, Challenges, and Opportunities

Outline:

With the explosive increase in end user devices, the availability of computing, storage and networking resources is becoming more scared. To provide qualitative services to users, there is a need to enhance the existing infrastructure of service provisioning. Cloud computing has been playing an important role to provide effective services by opening the access of resources from company oriented networks to individual user level. However, due to the existing and future demands of extensive and high quality-oriented services, many challenges are need to be addressed. Cloud computing solutions are becoming less effective with the existence of emerging technologies like Internet of Things (IoT) and Internet of Everything (IoE). These technologies are delay sensitive that requires the resources to be deployed in the proximity of end users.

In order to address the issues, Cisco® has come up with newly introduced term known as "Fog Computing" in 2014. The concept of Fog Computing is derived from the well-known Content Distribution Networks (CDNs). Content Distribution Network is an overlay network that was introduced to address the issues of centralized content provider architecture. This is done by delivering the contents based on the geographical location of the user. Similarly, the goal of Fog Computing is to enhance network throughput, reduce the delay, maximize the availability and the performance by placing the resources closer to the clients. Fog computing has the ability to be compatible with the existing cloud infrastructure. Due to the dynamic nature of the Fog Computing, it has opened the door to new opportunities. Although Fog Computing seems to be an efficient solution to overcome the limitations of cloud computing, there are still many challenges to be handled like defining standards, new software and hardware requirements security and reliability etc. Thus, the goal of this special session is to provide a detailed study of Fog Computing, its applications, upcoming challenges and incoming opportunities.

Topics: **Topics include but are not limited to:**

- Fog Computing architecture
- Technologies for supporting Fog Computing
- QoS for Fog Computing
- Security and Privacy for Fog Computing
- Fog Computing for mobile health and augmented cognition
- Data-centric approaches in Fog Computing
- Mobility and connectivity for Fog Computing
- Deployment and optimization of Fog Computing
- Current and Future standardization for Fog Computing
- Interaction between the Fog and the Cloud

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Important Dates:

Full Paper Submission deadline: 1 June 2017

Notification deadline: 31 July 2017

Camera-ready deadline: 31 August 2017

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