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SenSIP Seminar Series

Cloud and Fog Computing, an Overview

Presenter: Zhensheng Zhang
Professor

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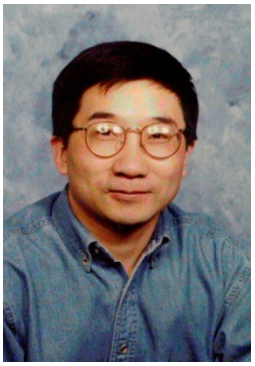
Abstract

Recent deployment in the internet to support Internet of Things (IoT) includes cloud computing and fog computing. Cloud computing is the technology of stocking and accessing data, applications and programs over an internet network instead of a local/home storage such as a computer's hard disk and uses networks of shared IT architecture containing large pools of systems and servers. Fog computing, also known as fogging, is a disseminated computing infrastructure in which application and its services are handled either at the network edge or in a remote data center- cloud. Fog computing improves efficiency and trim the amount of data that requires to be transmitted for processing, analysis and storage by placing the data close to the end user.

In this talk, a high level overview of the basic infrastructure and platform for cloud computing is first presented, development status as well as challenges will be reviewed. We then go over Fog Computing, review its architecture and key interfaces, highlight key differences between cloud computing and fog computing, discuss under which condition one is preferred than the other. Standard activities of the fog computing, user cases and future research topics will also be discussed.

Biography:



Dr. Zhensheng Zhang received his Ph. D. in Electrical Engineering from UCLA. He has over twenty five years' experience in design and analysis of network architecture, protocols and control algorithms, of the communication networks. He has worked at Cubic Corporation, Boeing, Bell Laboratories, Lucent Technologies, and Columbia University, respectively, focusing on research and development in wireless networks. He has published over 100 technical papers in IEEE Journals and key IEEE conferences (one paper was listed as the top 10 most reading articles from IEEE Communications Society website in 2007). He was IEEE Comsoc distinguished lecturer (2010-2013), the IEEE LATINCOM Keynote Speaker (2013); received the IEEE Regional/Area Outstanding Engineer award in 2011.

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