

## **Seminar Talk**

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**3:00 p.m. KH 224**

**Title:** Evaluating, Recommending and Assuring Cloud Services

**Abstract:**

As cloud services become increasingly popular, cloud providers compete to offer the same or similar services over the Internet. Quality of Service (QoS), which describes how well a cloud service is performed, will be more important. QoS refers to nonfunctional properties of cloud services, and is an important differentiator among functionally equivalent cloud services. As a result, how to evaluate, recommend, and assure QoS becomes important in both IT and business disciplines. In this talk, we argue for QoS evaluation, recommendation and assurance in cloud services. We review the state of the art, report our latest work, and discuss future research directions and challenges on the three topics. We propose a new benchmark suite for measuring cloud services, a novel recommendation approach for marketing cloud services, and a new economic method for allocating cloud resources. The benchmark suite can provide comparable QoS data for cloud services. The recommendation approach can predict reliable QoS rankings for cloud services. The economic method can meet users' QoS needs while minimizing resources consumed for cloud services.

**Bio:**

Dr. Xianrong (Shawn) Zheng is an Assistant Professor of Information Technology and Decision Sciences Department, Old Dominion University, Norfolk, Virginia, United States. He received his Ph.D. degree in Computer Science from Queen's University, Canada. His research areas are Computing and Informatics, which involve Computer Science, Computer Engineering, and Information Systems. His research interests are Data Science (Cloud Computing and Big Data), Artificial Intelligence (Machine Learning and Deep Learning), Electronic Commerce (Recommender Systems and Online Reviews), and Digital Currency (Bitcoin and Blockchain). He is a member of the ACM, the IEEE, and the AIS. Also, he is a Technical Program Committee Member of the 3rd IEEE International Conference on Internet of Things (IEEE ICIOT 2018), and a reviewer for top conferences and journals including IEEE Transactions on Cloud Computing and IEEE Transactions on Industrial Informatics.