

The Electrical and Computer Engineering Program presents

Cloud computing

Eman El-Ghoneimy

Research Associate in the Electrical and Computer Engineering Program
at Texas A&M at Qatar

Sunday, 15 May 2011, 3.00–4.00 p.m.

Conference room 310

light lunch will be served

This seminar introduces cloud computing concepts, tools, research and major market players. Cloud computing services are categorized as Infrastructure, Platform and Software as a Service (IaaS, PaaS, SaaS). Differences between grid, cluster, utility and cloud computing are outlined as well as the use of cloud computing in scientific application.

Recent research in the application of scheduling and resource allocation methods in cloud computing is highlighted. Hadoop Distributed File System (HDFS) is described together with the MapReduce programming model for processing large data. MapReduce Fair and Capacity schedulers are explained. Hypervisors available in the market and dynamic provisioning methods for allocating virtual machines are introduced.



Eman El-Ghoneimy is a Research Associate in the department of Electrical and Computer Engineering at Texas A&M at Qatar. She holds a Ph.D. (Engineering Science, Simon Fraser University, Canada, 2010), an M.A.Sc. (Systems Design Engineering, University of Waterloo, Canada, 2000), and a B.A.Sc. (Electronics and Communications Engineering, Cairo University, Egypt, 1995).

Dr. El-Ghoneimy research interests include resource allocation in cloud computing, intelligent, distributed and multi-agent systems, biomedical signal and data analysis, pattern recognition, soft computing and algorithm analysis and design. In addition to her research and teaching background, she has experience in software implementation in Canadian and Egyptian companies. She is a member of IEEE Systems, Man and Cybernetics and Women in Engineering Societies.

FOR MORE INFORMATION:

Noha Ezzat
noha.ezzat@qatar.tamu.edu
+974.4423.0152