



THE UNIVERSITY OF TEXAS AT SAN ANTONIO
DISTINGUISHED SPEAKER SERIES

OPEN CLOUD INSTITUTE

PRESENTS



Ken Birman

N. RAMA RAO PROFESSOR OF COMPUTER SCIENCE,
CORNELL UNIVERSITY

JANUARY 19, 2016, 4:00-5:00 P.M.
BIOSCIENCE BUILDING, LOEFFLER ROOM, 3.03.02

CLOUD HOSTED COMPUTING FOR DEMANDING REAL-TIME APPLICATIONS

Dr. Birman's group is working with a consortium of bulk electric power transmission operators for the Northeastern US on a cloud-based "smart grid" infrastructure. Their long goal is to use the cloud to host machine-learning and optimization technologies, but first one must consider how one can build a cloud-scale solution secure enough to support a nationally critical resource, strongly consistent, and seamlessly recoverable after disruption. Today, they have a platform running called GridCloud, and have just completed a DOE-funded effort to show that it could monitor the national bulk power grid.