FIU Engineering & Computing
FLORIDA INTERNATIONAL UNIVERSITY

Electrical & Computer Engineering

POWER/THERMAL-AWARE REAL-TIME COMPUTING

DR. GANG QUAN
ASSOCIATE PROFESSOR
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
FLORIDA INTERNATIONAL UNIVERSITY
Friday, October 5th, 2012
LECTURE: 10:00 AM – 12:00 PM

ENGINEERING CENTER
ROOM EC 1107
10555 WEST FLAGLER STREET
MIAMI, FL 33174

Abstract:

According to Borkar et al. from Intel, there are more than 30 billion transistors integrated into a single 300mm^2 die today, and the number is growing rapidly toward 100B in a matter of a few years. The power consumed by these transistors is also tremendous, projected to reach 300W by the middle of this decade. The exponentially increased power consumption has posted significant challenges not only on how to provide sufficient power source to an electronic system but also on how to dissipate the heat generated by the system. In this presentation, I will present our recent research at the Advanced Real-Time and Computing System Lab (ARCS-Lab) on the power/thermal-aware computing for real-time embedded systems.

Contact: 305-348-2807

Map: http://campusmaps.fiu.edu/ (Other campuses/ - Engineering Center)