

Title: Energy & Reliability Frontiers in Embedded, Mobile, and High Performance Computing

Abstract: The modern computing landscape is dominated by embedded, mobile, and high performance computing systems. Unfortunately, increasing energy consumption and deteriorating reliability across the spectrum of computing complexities threatens to derail the continuous growth we have come to rely on from information technology systems over the past several decades. This talk will provide a peek into the energy and reliability challenges facing the future of computing. I will also highlight some of the approaches being considered in my research group to overcome these challenges.