

“System Support for Renewable Energy-driven Devices”

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Thursday, Mar. 13, 2014 @ 3:30 – 4:45 PM, CSB - Room 210

Dr. Nilanjan Banerjee is an Assistant Professor at University of Maryland, Baltimore County. He is a NSF Career Awardee and a recipient of the Microsoft Research Software Engineering Innovations Award. He also received a Yahoo! Outstanding Dissertation award and a Best Undergraduate thesis award. His research interests are in the areas of Mobile, Embedded, and Sensor systems.

Abstract:

Renewable energy driven devices span micro-harvester powered devices for healthcare application to large solar panel or wind turbine driven houses. The key challenge in designing these wide spectrum of devices is balancing energy supply with energy demand. However, depending on the size of the system, specific challenges such as harvester design (in micro-harvesters) and user-comfort (in renewable energy-driven homes) must be addressed. In this talk, I will provide an overview of the challenges in designing such systems in the context of both micro- and macro- renewable energy-driven that my group has designed.

Contact Dr. Soo-Yeon Ji (sji@bowiestate.edu) if you have any question.