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Title: ***How much (execution) time, energy, and power will my algorithm cost?***

Abstract:

Do we need to design algorithms differently if our goal is to save energy and power, rather than (or in addition to) time or space? This talk presents a simple thought experiment that suggests when and why the answer could be "yes." Importantly, this talk is about speculative ideas more than it is a set of well-developed results. As such, your questions, healthy skepticism, (constructive!) feedback, and offers of collaboration may be even more welcome than usual! This work is joint with Jee Whan Choi, Kenneth Czechowski, Marat Dukhan, and Aparna Chandramowlishwaran (MIT).