

When Bits Meet Joules: A View from Data Center Operations' Perspective

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3:30-4:45 p.m.

140 DeBartolo

The past decade has witnessed the rapid advancement and great success of information technologies. At the same time, new energy technologies including the smart grid and renewables have gained significant momentum. Now we are in a unique position to enable the two technologies to work together and spark new innovations.

In this talk, we will use data center as an example to illustrate the importance of the co-design of information technologies and new energy technologies. Specifically, we will focus on how to design cost-saving power management strategies for Internet data center operations. We will conclude the discussion with future work and directions.

Xue (Steve) Liu is a Professor and William Dawson Scholar in the School of Computer Science at McGill University. He received his Ph.D. in Computer Science (with multiple distinctions) from the University of Illinois at Urbana-Champaign. He received his Master's Degree in Control and BSc in Mathematics both from Tsinghua University. He has also worked as the Samuel R. Thompson Chaired Associate Professor at the University of Nebraska-Lincoln and at HP Labs in Palo Alto, California. His research interests are in computing systems and communication networks, cyber-physical systems, machine learning and applications, and smart energy technologies. His research appeared in top venues including Mobicom, Infocom, ICNP, S&P (Oakland), RTSS, RTAS, ICCPS, WWW, KDD etc, and received several best paper awards.



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