Title: Smart Meter Analytics: Energy Optimization Opportunities and Privacy Challenges

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In this talk, I will describe recent and ongoing work on new data analysis techniques for smart meter data that can enable electric utilities to gain insights into their customer's energy usage profiles and use these insights for energy optimizations and savings. As the same time, I will highlight the privacy challenges of these "big data" approaches and describe methods for safeguarding customer privacy.

Bio: Prashant Shenoy is currently a Professor of Computer Science at the University of Massachusetts Amherst. He received the B.Tech degree in Computer Science and Engineering from the Indian Institute of Technology, Bombay and the M.S and Ph.D degrees in Computer Science from the University of Texas, Austin. His research interests lie in distributed systems and networking, with a recent emphasis on cloud and green computing. His recent work has focused on the sustainability aspects of the smart grid and smart buildings. He has been the recipient of the National Science Foundation Career Award, the IBM Faculty Development Award, the Lilly Foundation Teaching Fellowship, and the UT Computer Science Best Dissertation Award, and several best paper awards at leading conferences. He serves on editorial boards of the ACM Transactions on the Web and the Multimedia Systems journal and program chair of ACM eEnergy and ACM BuildSys. He has previously served as the program chair for ACM Multimedia, ACM Sigmetrics, World Wide Web, Performance, Multimedia Computing and Networking, IEEE Comsnets, and was the founding chair for USENIX Hotcloud . He is a distinguished member of the ACM and a fellow of the IEEE.