Lean, Mean and Green Datacenters

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Abstract of the invited talk:

The growth of IT across organizations of all types, from commercial enterprises to research labs/supercomputing centers, and increasing internet-based services, has led to a proliferation of large datacenters. Over and beyond the human resources and IT procurement costs, a substantial capital and operating expenditure of these datacenters goes into deployment and consumption of power. Power is also a serious problem limiting the scalability of datacenters, and is a growing concern from the viewpoint of environmental impact. In this talk, I will present the serious concerns of this problem, and discuss research opportunities and advancements that have been made this area in the recent past.

About the speaker:

Dr. Anand Sivasubramaniam is a Chief Scientist at Tata Consultancy Services driving R&D on Green Initiatives. He has been a Professor at Penn State University, USA, since 1995. He has spearheaded several projects on power management of computer systems, Green Datacenters and large scale IT Infrastructure management. He has published over 160 research papers in highly competitive conferences and journals. He received his B.Tech from IIT Madras in 1989, and a Ph.D. in Computer Science from Georgia Tech in 1995. He is an IEEE Fellow, ACM Distinguished Scientist, and has received several awards from the U.S. National Science Foundation, and IT industries.