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Fall 2013 Colloquium
Temple University
Computer and Information Sciences

Computing at Scale
Energy and Robustness Issues

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Thursday, August 29, 2 PM, Wachman Hall 1015D

Abstract:
In this talk, I will address some issues that I am interested in relative to large scale computing infrastructures such as data centers and cloud computing infrastructures. I will start with an overview of my past and recent research and then describe in some detail my recent and ongoing work related to energy efficient and sustainable computing. In particular, I will address the issue of energy adaptation and briefly describe the associated work and challenges. I will also present a vision for the department with respect to education and research in the area of computer systems. Finally, I will briefly address areas of collaboration with faculty at Temple and potential avenues for enhancing departmental funding.

Bio:
Krishna Kant is currently a Research Professor at the Center for Secure Information Systems at George Mason University, Fairfax VA. He is also serving as a program director in the Computer and Network Division (CNS) at the National Science Foundation. At NSF, he runs the Computer Systems Research (CSR) program and is actively involved in driving the NSF wide SEES (Science, Engineering, and Education for Sustainability) program. His current areas of research include robustness in the Internet, cloud computing security, and sustainable computing. He has 32 years of combined experience in academia, industry, and government. He has published in a wide variety of areas in computer science and has authored a graduate textbook on performance modeling of computer systems. He received his Ph.D. degree in 1981 from University of Texas at Dallas. He has since held positions at Northwestern University, Pennsylvania State University, Bell Labs, Bellcore (Telcordia), Intel, NSF, and GMU.