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Data-driven management of infrastructure systems in smart communities

Development of Smart and Connected Communities will require novel approaches to design reliable and robust infrastructure systems. In addition, to provide resilient services, the interactions and interdependence of infrastructure systems in different domains (e.g., energy, transportation and public health) must be addressed. This is also resulting in the accumulation of large amounts of data, which can be analyzed, interpreted and appropriately leveraged. In this presentation, we provide our perspectives on data-driven infrastructure systems in the context of smart and connected communities. We will discuss the need to integrate data from multiple infrastructure systems and a multidisciplinary approach to address problems in smart communities. We will discuss this in the context of the management of water and road infrastructure systems in a city.

Biography

Gurdip Singh is the Associate Dean for Research and Graduate Programs at Syracuse University. He was a Program Director at National Science Foundation from 2014 to 2016. From 2009 and 2014, he was the Head of Computer Science Department at Kansas State University. His research interests include real-time embedded systems, sensor networks, network protocols and distributed computing. His research has been funded by NSF, ARO, DARPA and Lockheed Martin. He received his PhD in 1991 for Stony Brook University and B.Tech from IIT Delhi in 1986.

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