



IEEE

Ottawa Section



Webinar by the IEEE Ottawa Section, Power and Energy Society Ottawa Chapter (PES), Reliability Society and Power Electronics Society Joint Chapter (RS/PELS), Instrumentation & Measurement Society Chapter (IMS), Communications Society, Consumer Electronics Society, and Broadcast Technology Society Joint Chapter (ComSoc/ CESoc/BTS), and IEEE Ottawa Educational Activities (EA)

The IEEE Ottawa Section is inviting all interested IEEE members and nonmembers to a webinar

The Smart City Building Blocks & Their Synergy with Smart Villages

by

Professor Dr. Saifur Rahman

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IEEE PES President 2018-2019 & 2021 IEEE President-Elect Candidate

DATE: Wednesday, August 12, 2020.

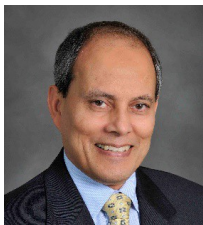
TIME: Webinar: 6:30 p.m. – 7:30 p.m.

PLACE: Online. Free registration required: <https://events.vtools.ieee.org/m/236964>

Abstract

A smart city relies on widely distributed smart devices to monitor the urban environment in real-time, collects information for intelligent decision making, and facilitates various services to improve the quality of urban living. The distributed network of intelligent sensor nodes, as well as data centers/clouds where sensor data are stored and shared, constitutes a smart city infrastructure. Smart cities address urban challenges such as pollution, energy efficiency, security, parking, traffic, transportation, and others by utilizing advanced technologies in data gathering and communications interconnectivity via the Internet. It provides real time and remote monitoring for different aspects of data management in areas such as transportation, communication, video surveillance, and sensors distributed throughout the city. Simultaneously, the Smart City building blocks like education, telemedicine, health care, IT applications, pollution management, etc. can be deployed in the IEEE Smart Village initiative to have a greater impact on the rural population throughout the world. through reliable electricity and internet connectivity.

Speaker's Bio



Prof. Dr. Saifur Rahman is the founding director of the Advanced Research Institute (www.ari.vt.edu) at Virginia Tech, USA, where he is the Joseph R. Loring Professor of Electrical and Computer Engineering. He also directs the Center for Energy and the Global Environment (www.ceage.vt.edu). He is a Life Fellow of the IEEE and an IEEE Millennium Medal winner. He was the founding Editor-in-Chief of the *IEEE Electrification Magazine* and the *IEEE Transactions on Sustainable Energy*. In 2006, he served on the IEEE Board of Directors as the Vice President for Publications. He is a Distinguished Lecturer for the IEEE Power & Energy Society (PES) and has lectured on renewable energy, energy efficiency, smart grid, electric power system operation and planning, etc. in over 30 countries. He was IEEE Power and Energy Society President 2018-2019 and is now a candidate for IEEE President-Elect 2021.

He chaired the US National Science Foundation Advisory Committee for International Science and Engineering, 2010-2013. He conducted several energy efficiency projects for Duke Energy, Tokyo Electric Power Company, US National Science Foundation, US Department of Defense, State of Virginia and US Department of Energy.

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