

Professor Prasanta Ghosh Bio



Professor Prasanta Ghosh is a faculty member in the Department of Electrical Engineering and Computer Science at Syracuse University. He has been conducting research in the area of microelectronics and power engineering. He has authored and co-authored many journal articles and conference papers in the area of thin films, solid-state devices, and power engineering. As a Fulbright Scholar, he has traveled internationally to teach engineering students and delivered lectures on his research. His current research focus includes microgrid, sensors, cloud computing and bio-inspired control for power system. He is a senior member of IEEE.

Speech Title

Smart Energy Systems and Technologies, Applications and Education

Smart Grid refers to power delivery network that focuses on delivering reliable and cost-efficient electric power while conserving energy resources. To improve reliability smart grid has, for example, sensors and measurement devices, communication network, data acquisition and processing technologies. Therefore, for the operation of smart grid industry is looking for power engineers with broad knowledge in the related areas. In turn, to meet industry demand, academia is revising the curriculum that provides fundamental power engineering concepts along with the knowledge of cross-disciplinary areas. In this discussion, we will talk about expertise needed to design, develop and operate the smart grid, and some proposed educational approaches.