Framework for Cloud based IoT to Edge Computing in Ambient Assisted Living Environment

Abstract: Cloud based Internet-of-Things (IoT) frameworks are envisioned to transform the tele-communication model by integrating the real world entities with machine-based frameworks. IoT frameworks permit everything to be associated, remotely accessed, and cooperatively communicate over the Internet. IoT devices are augmented with sensory and communication items to detect the real world entities behavior. The main purpose of framework is to sense the real world entities and communicate with each other for better realization of system usage. The vitality interest for IoT frameworks is the communication technologies that are relied on the design and development of efficient AAL systems for different associations of IoT structures.

It is pivotal to examine the challenges related to the architecture, asset administration, realistic energy utilization models for various parts of IoT frameworks such as Wireless Sensor Networks, core networks, energy efficient cloud administration and remote fueled systems. Systems related to the modeling, design, analysis, deployment of IoT networks for Energy-aware architecture and protocols for IoT assisted AALs are energy efficient IoT for smart cities and smart buildings, smart metering infrastructures and ambient energy harvesting. Intricacies related to the design, development and deployment of cloud based IoT frameworks to edge computing for supporting AAL systems will be presented.

Biographical Information:

Dr. Nagender Kumar Suryadevara holds a Ph.D degree from Massey University-New Zealand. He received a bachelor's degree in Computer Science and Engineering from Sri Krishnadevaraya University-India and a master's degree in Computer Science and Engineering from Madurai Kamaraj University-India. He is working as a Associate Professor - School of Computer and Information Sciences at the University of Hyderabad-Telangana-India. His research explorations are in the fields of Wireless Sensor Networks, Internet of Things, Time Series Data Mining and Ambient Assisted Living. He is very much interested in the design and development of applications for Smart Home environments in the context of real time data analytics.

Address:
Dr. Nagender Kumar Suryadevara
Associate Professor-School of Computer and Information Sciences
University of Hyderabad, Hyderabad, Telangana-India