

Research Group: IoT, AI and Embedded Systems

With the boom in internet and the number of embedded devices connected to internet on the rise, most of the industries of today are beginning to adapt IoT onto their operations. IoT provides these industries an effective solution to store the data collected on cloud and carryout various data analysis. Based on the current market trend, the research group is effectively focusing for developing IoT based solutions related to smart home, smart cities, energy metering, agriculture, and health care etc. A separate IoT lab has been developed in the department that is equipped with sufficient number of embedded boards like ARM CORTEX, Arduino, Raspberry Pi boards etc with various sensors and actuators modules. The high speed LAN and Wi-Fi router are available for providing internet connectivity. The open source cloud platforms are utilized for data storage and analytics. The research group is also working in the area of Artificial Intelligence especially covering human recognition, gesture recognition and sentiment analysis. Human recognition is one of the major concerns in surveillance and security systems in an IOT environment.

Currently, 4 faculty members are working in the area of IoT, AI and Embedded Systems. The research group has also undertaken and completed one research project in collaboration with **Landis+Gyr** industry i.e. *Evaluation of sensor based platform “SENTILO” for IOT Application (2017)*. Around 50 research papers in reputed International Journals and many more conference papers have been published in this area by the faculty members and students of the department of ECE, JIIT. One book has also been published.