

# Internet of Things (IoT) Research Group

## 1. Description about the Group:

IoT is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

Research Areas in Internet of Things include wireless sensor networks, cloud computing, big data, ubiquitous computing, distributed systems, cyber-physical systems, pervasive computing, and embedded systems. Some problems in this are Security Management, Health emergencies, Road traffic Management, Agricultural Problems. Algorithms related to this area like Random forests, Bagging, principal component analysis. Some social-economic benefits are the rapid development of the Internet has led to the "connectivity of everything", which is gaining momentum as a popular social development trend. The progress achieved in both technological and application fronts is the central focus of all industries. In recent years, smart home and intelligent government administration have been realized with the help of IoT. Vehicles and facilities such as household water meters and street lamps have been connected to the network.

## 2. People:

- (a) Group Head: **Dr.K. VenkateswaraRao**
- (b) Internal Faculty:
  - 1. Dr.Ch.VenkataNarayana
  - 2. Mr. T.Uday Kumar
  - 3. Mr. V.Siva Krishna
  - 4. Mr. B.Sivarama Krishna
  - 5. Mr. Ch.SrinivasaRao

## 3. Equipments:

- (a) **Hardware**: Raspberry pi, Arduino kit, Sensors.
- (b) **Software's**: Noobs, Arduino IDE

## 4. News:

- (a) Conference Conducted:
  - Conducted **International Conference on Computational Intelligence & Data Engineering (ICCIDE)-2017, Springer, India** on 14-07-2017 to 15-07-2017.

(b) **Workshops Conducted:**

One-day Training Programming on “IoT Architecture, Protocols, Case studies & Idea-Prototype-Product” by CDAC