Topics and Research Areas   {September 1, 2015}

Protocol Development
- **REST**
- IEEE802.15.4
- 6LoWPAN
- CoAP

Operating Systems to support IOT
- TinyOS, Contiki and other newer entrants into this space

Machine-to-Machine (M2M) Communication
- MQTT
- CoAP
- Impact of future M2M traffic

Gateways, Proxies and Border Routers
- Data fusion

Routing
- RPL
- ripple
- Trickle

Wireless Networks in IOT
- Wifi Issues
- Cellular issues (4GLTE and beyond)
- RFID
- NFC
- Mesh Networks
- WIMAX

Wireless Sensor Networks (WSNs)
- Power-Aware MAC Protocols
- Clustering
- Traffic Patterns

Smart Grid

Web of Things

Network Simulators
- **NS-3** simulations
- **NS-2** simulations
- **OPNET**
- **Cooja** simulations
- **NIST** tools
- **MatLab** Tools
- Wireless Simulators
  - OMNET++
  - GloMoSim

Security and Privacy in IoT
- **DTLS**

Application Space Details