5 Days workshop on Machine Learning, Deep learning for Wireless Communication July 29th to 31th 2019	
Tentative programme schedule	
Day 1:Machine learning	• **Dimensionality reduction techniques** • **Multiple input , Multiple output Linear regression** • **Probabilistic generative model** • **Probabilistic discriminative model** • **Sparse Kernel Machines** • **Support Vector Machine**
Day 2: Deep learning	• **Multilayer perceptron** • **Boltzmann Machine** • **Auto-Encoders** • **Convolutional Neural Network**
Day 3: Deep learning	• **Recurrent Neural Network** • **Generative Adversarial Network** • **Deep Reinforcement Learning**
Day 4: Tutorial	**Machine learning and Deep learning using Python programming**
Day 5: Data driven Applications in Wireless Communication	• **Network prediction, Traffic classification, Call detail record mining.** • **Mobile health care, Mobile pattern recognition, Natural language processing, Automatic Speech Processing** • **Mobility analysis, Indoor localization** • **Wireless Sensor Networks (WSN)** • **Energy minimization, Routing, Scheduling, Resource allocation, Multiple access, Power control** • **Malware detection, Cyber security , Flooding attacks detection, Mobile apps sniffing** • **MIMO detection, Signal detection in MIMO-OFDM, Modulation recognition, Channel estimation, MIMO nonlinear equalization, Super -resolution channel and direction-of-arrival estimation, etc.**
Last date for registration	**July 20th 2019**
Registration fee* (Includes workshop kit and Lunch only)	**Rs.3000 (Including GST)**
QR (Newsletter COMPSIG NITT)	**Dr. E.S. Gopi, Coordinator and Head, Pattern recognition and the computational intelligence laboratory Department of Electronics and Communication Engineering National Institute of Technology Tiruchirappalli Series editor: Signals and Communication (Springer publications) Click here: Phone number: 914312503314/ 9500423313**
Link to the previous workshop	**Accommodations details: click here**