

## **EPL606 – Fall 2016**

### **Suggested Semester Project Topics**

- 1) Cooperation between WiFi Hotspots
- 2) Urban Computing Implementation
- 3) Nano-scale Networking Issues and Current Solutions
- 4) Improving the ZigBee/IEEE 802.15.4 MAC protocol
- 5) MIPv6 in 4G (LTE-A) : How Exactly?
- 6) Network Security-Fault Diagnosis
- 7) IP-based security in Low Power Devices
- 8) Network Virtualization for Mobile Networks
- 9) Adaptive Video Transmission over Mobile Wireless Networks
- 10) Jamming Detection for Wireless Sensor Networks
- 11) Topology Control in Wireless Sensor Networks
- 12) QoS adaptation in wireless mobile networks
- 13) Call Admission Control in Heterogeneous Networks using Game Theory techniques
- 14) Intrusion Detection System based on the Human Immune System
- 15) Multicast feedback control for mobile multicasting in MIPv6
- 16) Handover analysis and comparison of Mobile IPv6-based mobility management protocols
- 17) Energy Efficient Data Management in WSNs
- 18) Fault Tolerance Algorithm in MPLS-based networks - utilizing Traffic engineering
- 19) Mobility for Topology Control in Wireless Sensor Networks
- 20) Introducing Mobility in the Wireless HART standard
- 21) Securing Cognitive Radio MAC Protocols
- 22) Providing Security in Electromagnetic Nano-communications
- 23) Simulation of QoS routing protocols
- 24) Improvement of network resource utilization and QoS by using MPLS traffic engineering
- 25) DDoS Attacks and ways to defend
- 26) Latest trends in Mesh Networks
- 27) Social Networks, population models networks and structural models networks

28) Wireless LAN security methods

29) Cloud computing και ασφάλεια πληροφορίας. Πλεονεκτήματα και μειονεκτήματα.

30) Detecting Forest Fires using Wireless Sensor Networks

31) Wireless Sensor Network for Health Monitoring