Tauseef Ahmed

Final Report for the SenseDev'15

SenseDev'15 offered the opportunity to learn from leading researchers in WSN's, IoT, and M2M domains. The school provided lectures on fundamental and applied aspects of WSNs with hands-on tutorials, simulation and experimentation, providing the participants with a solid understanding and experience to anchor their research in this field. The SenseDev'15 summer school was aimed at post-graduate students, PhD students, and young researchers from universities as well as industry.

The course provided the unique opportunity of learning from experts in the field from two established applied research groups based in the UK and Australia. During the course participants had be given lectures and tutorials on;

- The latest research results, trends, activities and applications in the 5G, IoT, WSN, and M2M domain.
- The development of sensing systems from concept through to deployment.
- The importance of deployments and field-work, along with associated challenges.
- Why simulation is important, and be able to implement simulations of WSNs in OMNET++.
- Gain the techniques required to implement and deploy WSN systems, using TinyOS and TelosB nodes.
- Produce and showcase a demonstrator using the skills taught throughout the course.

Also the school had additional fruitful advantages;

- Networking with established researchers and making new contracts with peer group.
- Fun and enjoyment in the island of Cebu whilst acquiring new skills in your research domain.

It was a great opportunity for me to learn the state of the art technologies in the communication engineering and specially in the field of wireless sensors networks (WSNs). SenseDev'15 was the first workshop of its kind held in University of San Carlos Cebu, Philippines with the collaboration of Coventry Universiy, UK. In the workshop, I had the honor to learn from the leading professors, researchers and industry specialist and get training on the WSNs. I am really thankful for to the Doctoral School and the IT Academy who helped and financed my study and training trip.

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Project:

At the end of the school, we had developed a WSN based security system which we successfully demonstrated and received the certificates.

Figure 1: WSN Group Project Demontration 1

Figure 2: WSN Group Project Demontration 2

Figure 3: WSN Group Project Demontration 3

Figure 4: Receiving Certificate from the Prof. James Brusey

Figure 5: Group Photo with Prof. James Brusey and Dr. Ross Wilkins(Industrial Researcher)