



**University of Pavia**

**Ph.D. Program of Electrical and Electronics Engineering and Computer Science**

## **SEMINAR**

# **Mobile, ad-hoc, mesh and vehicular networks**

***Prof. K.R. Chowdhury***  
***Northeastern University, Boston, MA***

**November 18<sup>th</sup>, 2015, h 11.00 – 13.00,**  
**Aula seminari ex Dipartimento di Elettronica. Floor D**

**Abstract:** This seminar will discuss the topic of dynamic (temporary) network creation between users only sharing some limited time common interest. Such networks may be created by mobile devices so that their topology rapidly changes in time. Impact of mobility will be first addressed and examples of networks and applications will be given. Topics covered:

- Differences between sensor, ad hoc networks
- Mesh networks, concepts, uses, protocols and challenges
- Protocol designs for ad hoc networks
- Vehicular networks- cooperation, sensing, correlation between traffic and data
- 802.11p vehicular networking standards
- Design of unmanned aerial vehicular (UAV) networks

**Bio:** Kaushik Chowdhury is Associate Professor in the Electrical and Computer Engineering Department at Northeastern University, Boston, MA, USA since 2009. He graduated with B.E. in Electronics Engineering with distinction from VJTI, Mumbai University, India, in 2003. He received his M.S. in Computer Science from the University of Cincinnati, OH, in 2006, and Ph.D. from the Georgia Institute of Technology, Atlanta, GA in 2009. His M.S. thesis was given the outstanding thesis award jointly by the ECE and CS departments at the University of Cincinnati. He received the Best Paper Award at the IEEE ICC Conference in 2009, 2012, 2013, as well as the Best Paper award in the ICNC Conference in 2013. His expertise and research interests lie in wireless cognitive radio ad hoc networks, energy harvesting, and intra-body communication. He is currently an area editor for the Elsevier Ad Hoc and Computer Communications journals, and the Chair for the IEEE Technical Committee on Simulation. He is the recipient of the 2015 NSF CAREER award.

### **Organizer**

**Prof. L. Favalli**

### **Ph.D. Coordinator**

**Prof. P. Di Barba**

Seminar in English

For more information: [lorenzo.favalli@unipv.it](mailto:lorenzo.favalli@unipv.it)