



UNIVERSITA' DI
PAVIA

DOTTORATO DI RICERCA IN INGEGNERIA ELETTRONICA, INFORMATICA ED ELETTRICA

AVVISO DI SEMINARIO

Fundamentals of Localization in WSNs

Prof. Davide Dardari

Università di Ferrara

Abstract - Localization represents a fundamental issue in most wireless sensor network (WSN) applications. Sensed data without position information is often meaningless. Positioning is also essential for basic mechanisms composing the WSN to work efficiently. Unfortunately, propagation (e.g., indoor), battery drain, cost and size constraints preclude the utilization of GPS in most of the nodes in many WSN applications. In this tutorial, an introduction to short-range ranging and positioning will be provided. In particular, theoretical fundamental limits as well as practical schemes will be explained. The main positioning error sources will be discussed. Some results derived from measured data in real environments will be shown to investigate the effect of system parameters on ranging and positioning accuracy.

22 aprile 2010, ore 14.30
Lab. di Elettronica e Telecomunicazioni
Fondazione Università di Mantova

I dottorandi e tutti gli altri interessati sono cordialmente invitati.

L'organizzatore

Prof. P. Gamba

Il coordinatore del dottorato

Prof. V. Degiorgio