

**Alma Mater Studiorum – University of Bologna**

**Department of Computer Science and Engineering**

**Corso di Laurea Magistrale in Informatica – II year - Curriculum C Systems and Networks**

**(for the first time this year's course is FULLY in ENGLISH: 2016/2017)**

# **WIRELESS SYSTEMS AND NETWORKS**

**6 - months (1st cycle): Sept. – Dec. 2016**

**6 CFU**



**Luciano Bononi**

**([luciano.bononi@unibo.it](mailto:luciano.bononi@unibo.it))**

**<http://www.cs.unibo.it/~bononi>**

**<http://www.unibo.it/faculty/luciano.bononi>**

**Students' reception hours: Wed. 14.30-16.30  
(always better to drop an email to agree on dates and hours)**

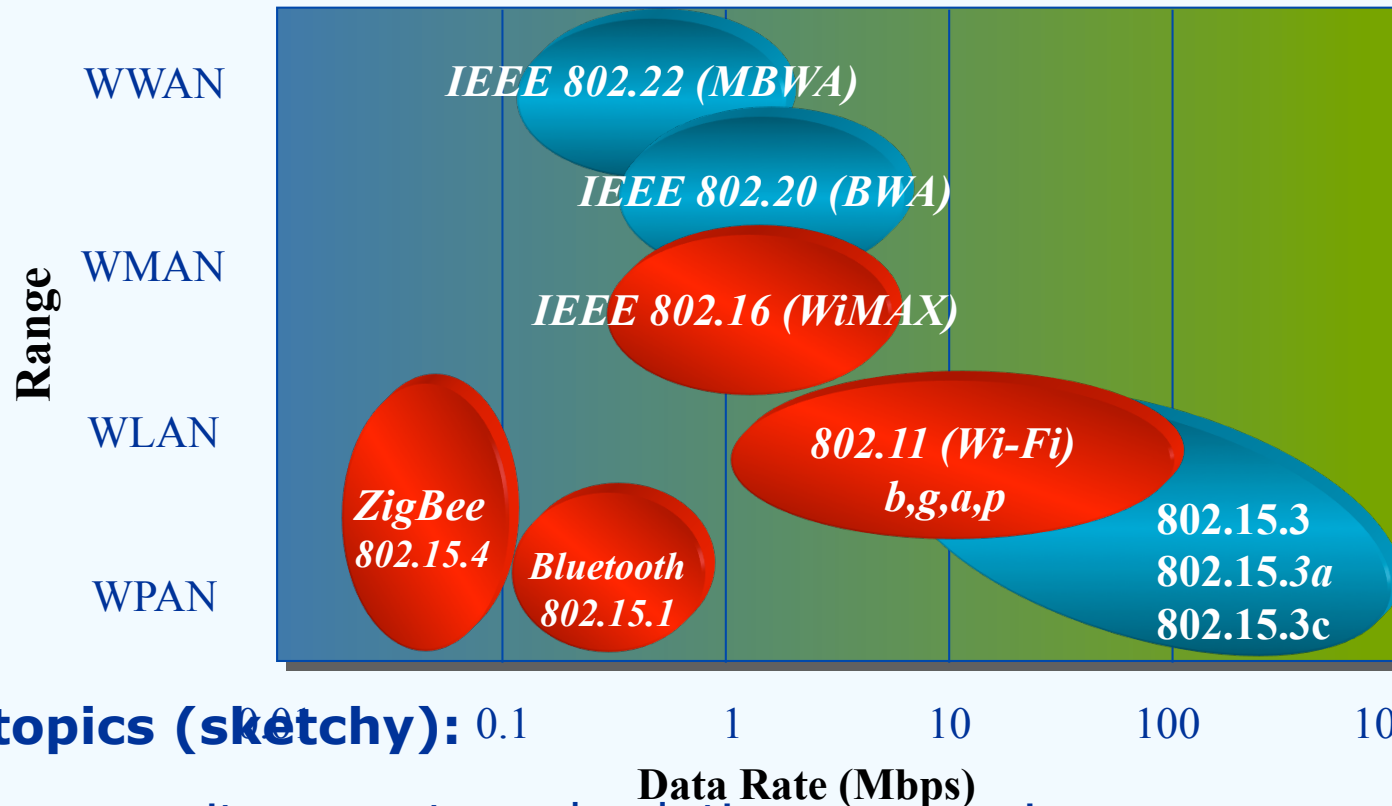


# Course content (1)?

- **Introduction, wireless systems and communication protocols**
  - Implementation and configuration of wireless systems
  - Problems and impacts of “wireless” on protocols’ stack
- **Wireless Systems and Networks**
  - HW and SW architectures of wireless systems (Infrastructure, Personal, Community, Ad Hoc, Vehicular, Mesh, Sensor Networks...)
  - Design, implementation, management and integration of wired/wireless/wireless systems
- **Wireless services**
  - “services anyway, everywhere, always? Yes... how?”  
(kind of services, quality of service and service paradigms)
  - Experimental ideas of new services?

# Course content (2)?

- Main Standards and wireless technology for consumers



- Advanced topics (sketchy):

- Wireless security aspects and solutions, pervasive communications, visionary applications and services (hook for LAM, IoT and other courses + thesis)

# How the exam works?

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- **I) A seminar (individual or max 2 components) on deepening/extending one of the lesson's topics.**
  - Short summary text (max 25 pages)
  - Presentation with electronic slides (max 45)
- **II) Oral made individually on the whole program of classes**
- **III) optional project (experimental, evaluation plus, leading to theses?)**
  
- **Open appointment for exams (when you are ready you drop me an email and I will call you when/where. See instructions on webpage... see next)**

# Webpage of classes: A.Y. 2016/2017

- Here you will have a reference for all concerning the classes  
<http://www.cs.unibo.it/~bononi>

The image shows three overlapping browser windows from Mozilla Firefox. The top window displays the 'Luciano Bononi Home Page' with a navigation menu where 'Courses' is circled in red. The middle window shows a list of courses under the heading 'Luciano Bononi: didactical activities', with 'Sistemi e Reti Wireless' circled in red. The bottom window shows the detailed page for the 'Corso di Sistemi e Reti Wireless, A.A. 2005/2006', with the course title 'Wireless Systems and Networks A.Y. 2016/2017' highlighted in a red box at the bottom of the slide.

# Questions?

Possibly drop your questions via e-mail

**luciano.bononi@unibo.it**

Or newsgroup

**unibo.cs.scienzeinternet.sistemiretiwireless**

See you at the first lesson... that is, now!

(Wednesday September 21, 2016, at 16.30, Ercolani 1)