Alma Mater Studiorum – University of Bologna

Department of Computer Science and Engineering

Corso di Laurea Magistrale in Informatica – Il 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. 2018 6 CFU



Luciano Bononi

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Students' reception hours: on email appointment (always better to drop an email to agree on dates and hours)

Contact information

Office:

- Ground floor of Dept. building (ahead, right, ahead)
- Mura Anteo Zamboni 7



use email: luciano.bononi@unibo.it

- Schedule of classes:
 - Tuesday, 10.30-13.30, Aula Busi
 - Friday, 12.30-14.30, Aula Ercolani 3 (E3)



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

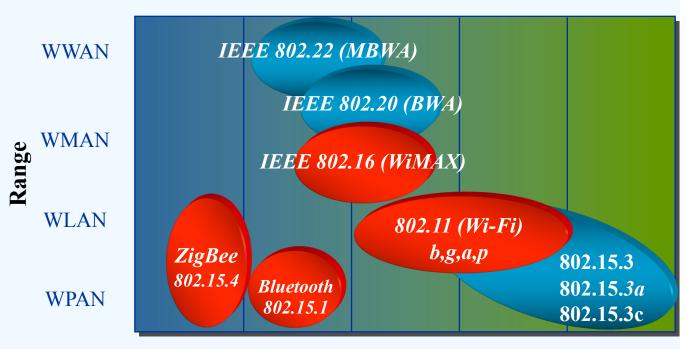
- HW and SW architectures of wireless systems (Infrastructure, Personal, Community, Ad Hoc, Vehicular, Mesh, Sensor Networks...)
- Design, implementation, management and integration of wired/wireless/wireless systems

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



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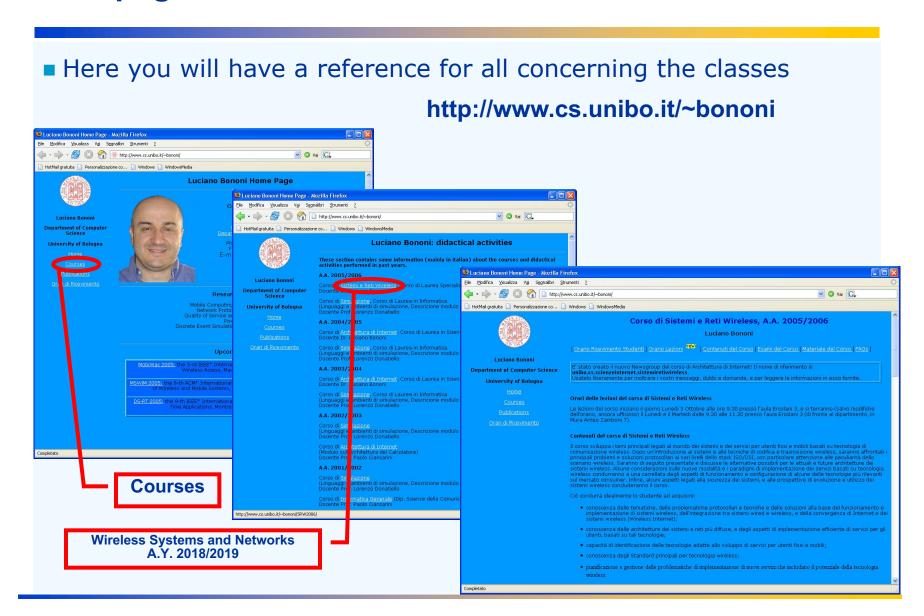
- Advanced topics (sketchy): 0.1
 - Wireless security aspects and solutions, pervasive communications, visionary applications and services (hook for LAM, IoT and other courses + thesis)

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How the exam works?

- 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



Questions?

Possibly drop your questions via e-mail **luciano.bononi@unibo.it**

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