





- Teacher(s) name:
 - Dr. Paolo Pagano, Email: paolo.pagano@santannapisa.it
- Semester:
 - Second
- Exam:
 - Presentation on a selected topic plus Oral Exam OR
 - Project work plus Oral Exam;
- Area:
 - Group A

Syllabus

Wireless Networks:

- Radio transmission fundamentals;
- Wireless communication techniques at PHY and MAC layer;
- Evolution of wireless networks;

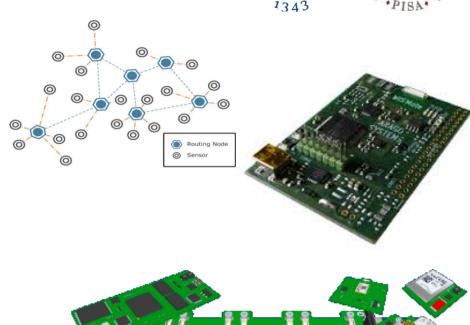
Wireless Sensor Networks:

- Device architectures and components for WSNs;
- Wireless Communication Techniques at PHY and MAC layer;
- WSN technologies in the Internet-of-Things era;
- Wireless Multimedia Sensor Networks;

Laboratory sessions on real devices

- Contiki OS programming on real devices;
- Interfaces with cloud-based Information Platforms.

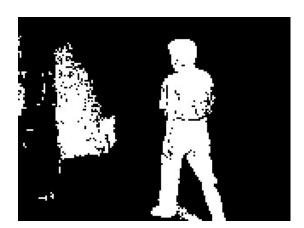




Theses available

Z 1343

- Sensor networks:
 - Embedded computer vision applications in constrained devices;
 - Distributed sensing using NB-IoT/6LoWPAN/LoRA;
 - Vehicular communications using cellular and ad-hoc nets.
- Advanced applications in Smart Cities and Smart Factories:
 - Data aggregation and knowledge extraction;
 - Network abstraction and virtualization for remote sensing;
 - Network management on the cloud.





http://www.monicapmslivorno.eu