

POLITECNICO DI TORINO

July16th - 20th 2018 SUMMER SCHOOL Building tomorrow society: IoT applications & data management

Internet of things, smart homes, smart buildings, smart cities, big data... these increasingly popular words describe the future ahead of us. All these application domains require handling an incredible amount of data and interacting with an incredible amount of devices (sensors and actuators), with sufficient intelligence and power to select information and actions relevant to the end-user.

The Summer School introduces the fundamental aspects of the new breed of smart applications, and will cover their full design cycle: distributed wireless sensors, data sensing, data transmission, and collection and management, intelligent behaviors, data visualization and user interaction.

The teaching approach will be practical, with theoretical lectures intertwined with hands-on experimental activities. Students will develop simple Smart Environment applications. All the activities will be held in English.

Location: Politecnico di Torino

Requirements: the program is designed for undergraduate students who have completed at least two years of a Bachelor program in ICT (Computer Science, Computer Engineering, Electronics, Telecommunications).

Application and fees:

Participation fee: 600 €.

Students from partner universities will receive a discount of 10% off the full fee.

Early bird discount: students who register before April 16th, 2018 will receive an early bird discount of 15%.

IEEE Members will receive a discount of 100 € (120 € if they register before April 16^{th,} 2018).

	Standard fee	Early bird
Regular participant	€ 600	€510
Student from Partner University	€ 540	€ 500
IEEE Member	€ 500	€ 480

The participation fee covers:

▶ 1-week intensive Summer School with lectures and labs experiences (40 hours);

> PoliTo tutoring for the whole academic activity;

▶ Visit to a research lab/company;

> Welcome cocktail and "arrivederci" dinner;

≥ Insurance coverage for accidents occurring on the

- university premises;
- ≥ Wi-Fi connection.

Flight tickets, visa fees, accommodation, meals and travel/medical insurance are not included.

Students will receive 4 ECTS credits upon successful completion of a final exam.

Please visit the Summer Schools website for detailed information on modalities and timing for the online application: www.polito.it/summerschools

Application deadline: June 11th, 2018.

N.B. Candidates requiring visa to enter Italy must apply by May 15th, 2018.

Program

Day 1

Lecture: ICT for tomorrow society: smart society, biomedical applications, industry 4.0, ... Lab: Wireless transmission

Day 2

Lecture: sensor networks;

Lab: experiments on sensor networks Day 3

Day J

Lecture: data science for sensor data; Lab: mobile application for sensor data

Day 4

Lecture: Internet of Things (IoT) and ambient intelligence (AmI);

Lab: Lab on IoT and AmI to build a complete prototype combining custom sensors, off-the-shelf devices, and mobile apps

Day 5

Visit to a research lab or a HighTech Company. Exam, grading and final ceremony.



