



ITU Centres of Excellence Network for Europe

The Abdus Salam International Centre for Theoretical Physics

FACE-TO-FACE Training Course on

CODATA/RDA Advanced Workshop on IoT and Big-Data Analytics

Trieste, Italy

August 19-23, 2019

INFORMATION NOTE

1. INTRODUCTION

The workshop first defines how IoT and why IoT data processing is very different from typical data analytics, with its unique requirements for big data and real-time processing. Using a hands-on approach with simulated data, participants will learn to build a messaging and data streaming system with Apache Spark and Kafka and perform a real-time analysis with IoT and streaming data.

2. VENUE OF THE TRAINING

ICTP - Strada Costiera, 11, Adriatico Guesthouse, I - 34151 Trieste Italy

3. COORDINATORS

<u>INSTITUTE COORDINATOR</u>	<u>ITU COORDINATOR</u>
Dr. Clement Onime, ICTP Email address: onime@ictp.it	Name: Jaroslaw Ponder, Head ITU Europe office Email address: jaroslaw.ponder@itu.int ; eurregion@itu.int

4. REGISTRATION

Registration is online <https://academy.itu.int/index.php/training-courses/full-catalogue/codatarda-advanced-workshop-iot-and-big-data-analytics>

5. VISA FORMALITIES

Most non-EU (European Union) visitors coming to ICTP will need a visa to enter Italy and either a declaration or a permit of stay to formalize their visit in the country. Important information is available at the following URL :

<https://www.ictp.it/visit-ictp/pre-arrival-information/visas.aspx>

EU and/or Schengen passport and/or identity card holders do not need a visa to enter Italy, according to instructions received from the Italian authorities.

6. ACCOMMODATION

ICTP visitors have a wide selection of accommodations at their disposal, from a room in one of our on-campus guesthouses to rooms in local hotels. The best accommodation for short-term visitors to ICTP are the Galileo and the Adriatico guesthouses. Accompanying family members can be accommodated in the guesthouses subject to availability. All charges should be settled directly with the guesthouse. Guesthouses accept payments either in cash (Euro), by Pos or by Credit Card (Cartasi, Mastercard, American Express, Visa, BankAmericard).

Request for accommodation should be sent to itu-coe@ictp.it

7. LIST OF PROPOSED HOTELS

Visitors to the Centre can be provided with accommodation in the ICTP guesthouses subject to availability; otherwise, a list of nearby hotels can be found at the URL:

<https://www.ictp.it/visit-ictp/accommodation/hotels.aspx>

8. DETAILS OF ARRIVAL AND TRANSPORT

Trieste, home to ICTP, is located in the northeast corner of Italy, close to the Slovenian border. It is easily reachable by plane, train and automobile. Arriving by plane, one can choose to land at Trieste Airport, Venice Marco Polo Airport, or Treviso Airport. More information on getting from the airport to ICTP is available at the URL:

<https://www.ictp.it/visit-ictp/transportation/airport-transit.aspx>

Trains operated by Trenitalia travel frequently between Trieste and major Italian cities. Buses are available for local and regional transport.

9. CURRENCY

The Euro is the official currency in Italy. In Italy, cash payments are the norm. However, large shops, restaurants and travel agencies accept major credit cards. Note that cashing cheques issued by foreign banks can present considerable difficulty. Italian banking law prescribes that such cheques can be deposited only into a bank account, and a charge is normally levied upon this transaction. An ATM machine is available at ICTP's Enrico Fermi building.

10. ELECTRICAL APPLIANCES

- A. The voltage in Italy is 220 volts.
- B. For electric power, there are sockets of German ("Schuko") and Italian ("bipasso") type, also compatible with Europlugs.

11. LANGUAGES

English is the working language at ICTP. Italian language are spoken in Trieste.

12. SECURITY

The security situation in Italy remains in line with other European Countries. In Trieste, public transportation is considered safe and efficient and the maintenance and condition of the road network is good.

13. MEDICAL AND HEALTH

Italian Law requires all foreigners to have valid health insurance coverage while in Italy. Failure to comply will result in a denial of permission of stay on Italian territory. Visitors who have official documents certifying their participation in a national health insurance scheme, valid in Italy, do not have to obtain separate coverage.

Citizens of EU-EEA, Switzerland, including other nationals having legal residence and who are enrolled in the social security system in these countries, should bring their European Health Insurance Card with them. This must be shown in case medical assistance or hospitalization in Italy is required.

Non-EU (European Union) visitors should verify if their home country's national health insurance programme is recognized in Italy and bring a statement in English by the local insurance company.

14. WEATHER

Trieste is located in northeastern Italy, on the Adriatic sea. Although it seldom snows, the local climate ranges from cold (as low as -2C and less in December-February) and windy (due to a cold wind from the NE called the bora), to hot (as high as +30C in July-August). In all seasons, it is advisable to have an umbrella, waterproof shoes and sweater. In winter, a coat, gloves, hat and scarf are necessary.

15. INTERNET

Broadband Internet access is available on the ICTP Campus including wireless.