

Registration and payment information

Speech and Natural Language Processing

Training details

Modality: Online instructor led

Dates: 01 Jun 2021 - 30 Jun 2021

Training fees: \$150.00

Language: English

Registration deadline: 31 May 2021

Training code: 21OI026500EUR-E

Contact: onime@ictp.it

Training description

This course is designed to teach students to understand the current state of the art of Automatic Speech Recognition (ASR) and Natural Language Processing. The first part provides background review and discussion on ASR background and introduction to probability. Student will learn key algorithms such as HMM, DNN, Hybrid (HMM/DNN) and Baum-Welch training algorithm. Students will also learn about representations of the acoustic signal like MFCC coefficients, and the use of Gaussian Mixture Models (GMMs) and context-dependent triphones for acoustic modeling. Finally, we will cover N-gram language modeling and perplexity. The students will be engaged in detail ASR system development tools such as HTK, Sphinx and ESPRESSO. Students also gain an understanding of Text-to-Speech (TTS): Grapheme-to-phoneme and Prosody (Intonation, Boundaries and Duration). The students will compare and contrast past ASR techniques and the current approaches to develop ASR system.

For more information about the training objectives, target population, entry requirements, methodology, evaluation and content, consult the page [here](#).

How to register

In order to register for the training, participants should:

1. Create an ITU Academy account [here](#)
2. Register for the course [here](#)

How to pay for the training

A training fee of USD 150.00 per participant is applied for this training course. Payment should be made via the online system using the link mentioned above for training course registration at [course page](#).

Where it is not possible to make payment via the online system, select the option for offline payment to generate an invoice using the same link as above. Download the invoice to make a bank transfer to the ITU bank account shown below. Then send the proof of payment/copy of bank transfer slip and the invoice copy to Hcbmail@itu.int and copy the course coordinator. **All bank transaction fees must be borne by the payer.**

Failure to submit the above documents may result in the applicant not being registered for the training.

Group registration and payment

Registration and payment for multiple people from an organization is possible through institutional contacts.

To become an institutional contact:

1. Go to your profile page by clicking on the “My account” button in the user menu and click on the “Apply to be an Institutional Contact” button
2. Fill in the required information and click “continue”, a request will be created.
3. An ITU Academy manager will manually review this request and accept or deny it accordingly.
4. If accepted, you will find a new menu tab “Institutional Contact” appearing in the top bar. You can now request multiple seats in a course and assign them to people from your group. Kindly note, each individual must create an ITU Academy account.



The [ITU Academy](#) is the International Telecommunication Union leading platform for capacity development initiatives.

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