

General Workshop Information

Workshop Title: Source Localization Using EEGLAB

Workshop Type: Specialized Workshop of ICBME 2026

Organizer: The 33rd National Conference and the 11th International Conference on Biomedical Engineering

Instructor: Khaterah Mohammadzadeh

Date: November 17, 2026

Duration: 2 hours

Format: In-person

Venue: Isfahan University of Technology

Workshop Overview

This workshop aims to introduce participants to the concept of brain source localization and the use of EEGLAB for the processing and analysis of electroencephalography (EEG) data. Participants will become familiar with the fundamental concepts and general workflow involved in identifying the sources of brain activity from EEG recordings.

Topics and Course Outline

- Introduction to EEG signals and their applications in brain activity analysis
- Introduction to Source Localization and the principles of estimating brain activity sources
- Overview of EEGLAB and its applications in EEG data analysis
- Introduction to EEG data preprocessing and preparation
- Overview of the general workflow for brain source localization
- Applications of source localization in neuroscience and biomedical engineering research
- Practical considerations and challenges in EEG data analysis

Registration

General Registration Fee: 5,000,000 R

Conference Participant Registration Fee: 3,000,000 R