

General Workshop Information

Workshop Title: Microscopic Image Processing Using ImageJ and Its Applications in Biomedical Engineering

Workshop Type: Specialized Workshop of ICBME 2026

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

Instructor: Dr. Raouf Rahimzadeh

Date: November 17, 2026

Duration: 4 hours

Format: Online

Venue: Isfahan University of Technology

Workshop Overview

This workshop aims to introduce participants to the principles and practical methods of microscopic image processing and analysis using ImageJ. Participants will become familiar with the software's tools and capabilities for image processing, measurement, and quantitative analysis, as well as its applications in biomedical engineering research.

Topics and Course Outline

- Introduction to ImageJ and its working environment
- Fundamentals of microscopic image processing and analysis
- Image acquisition, preparation, and preprocessing
- Introduction to image enhancement and contrast adjustment techniques
- Image measurement and extraction of quantitative features
- Introduction to thresholding and image segmentation
- Counting, measuring, and analyzing structures in microscopic images
- Applications of ImageJ in biomedical engineering research
- Practical considerations and challenges in microscopic image analysis

Registration Fee

General: 10,000,000 R

Conference Participant: 6,000,000 R