Selected references on open-source effort

- MWM: MorletWaveModal - Python package for advanced experimental modal analysis
- SDyPy: Structural Dynamics Python.
- pyEMA: Python package for Experimental and operational modal analysis,
- FLife: Vibration Fatigue by Spectral Methods,
- pyExSi: Excitation signals as used in structural dynamics and vibration fatigue,
- pyFBS: a Python package for Frequency Based Substructuring, TPA, etc.,
- pyIDI: Python Image Displacement Identification.

Event chair

- Dr. Ivan Tomac

Session co-organizers

- High-speed camera based motion identification and Experimental modal analysis: dr. Ivan Tomac, dr. Janko Slavič
- Vibration Fatigue by spectral methods: dr. Martin Česnik, dr. Janko Slavič

Web page

opensd.fesb.unist.hr

Join mailing list: tinyurl.com/OpenSD

Contact

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CSM CROATIAN SOCIETY OF MECHANICS
ZAGREB - OSIJEK - RIJEKA - SL. BROD - SPLIT

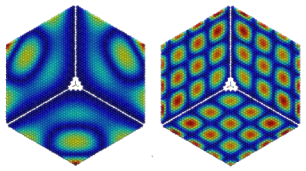
Open-source Scientific Computing in Structural Dynamics

Summer School

25-26 June 2026
Dubrovnik, Croatia

OpenSD2026 CROATIA

www.opensd-conference.com



Preliminary program

We are pleased to announce that the *Open-source Scientific Computing in Structural Dynamics Summer School* will be held Dubrovnik, Croatia in July of 2026.

This goal of this summer school is to promote and accelerate open-source-based research in the field of structural dynamics.

The summer school will accept up to 15 attendees per track (first-come, first-serve basis).

SUMMER SCHOOL program:

Day 1: Summer school: common track Intro to Python, numerical methods, signal processing. *3h of lectures, 3h of hands-on work. Summer school dinner.*

Day 2: Individual Summer school track

- Track 1: High-speed camera based motion identification and Experimental modal analysis

  3h of lectures, 4h of hands-on work.

- Track 2: Vibration Fatigue by spectral methods

  3h of lectures, 4h of hands-on work.

Target audience

The target audience is PhD or MSc students working in the field of structural dynamics.

What to expect

The Summer school program is designed to help you understand how the open-source community operates and how to write open-source code so that it can be used by other researchers. Summer school attendees will receive the full source code of the courses.
Individual tracks will focus on particular topic withing Structural dynamics (see preliminary program).

Up to possibilities of the local organizer: Attendees have the option to obtain 2 ECTS.

Prior knowledge

The summer school will be based on the Python programming language. Basic knowledge of Python is assumed, but Matlab users should be able to catch up quickly.

Important dates

- Apr 25th 2026: early-bird registration closed.
- June 5th 2026: registration closed.
- June 25th 2026: summer school start.

Event fee

The Summer-school fee is 360€ (early-bird 310€). The fee includes lunch and refreshments during breaks, the welcome reception and Summer school dinner.

Venue & Accommodation

The Summer school will take place at the Centre for Advanced Academic Studies in Dubrovnik. Accommodation for participants including breakfast is available in the CAAS's dormitory for the special price (see webpage for details).

Dubrovnik

Join us in Dubrovnik, the Pearl of the Adriatic, where a vibrant scientific community meets breathtaking coastal scenery.

This historic city, renowned for its UNESCO-listed Old Town and impressive medieval walls, offers a unique setting for collaborative learning.