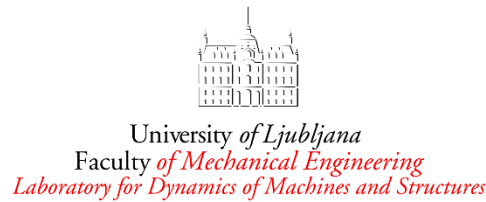


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OpenSD2023: Open-source Scientific Computing in Structural Dynamics

Conference, June 26th -27th 2023

Monday, 26th of June

8:00 – 8:40	Coffee and registration
8:40 – 9:00	Conference opening
9:00 – 9:40	Keynote: Gunnstein Frøseth, Strategies and tactics for a sustainable open source project
9:40 – 10:40	Session 1: Vibration fatigue
10:40 – 11:00	Coffee break
11:00 – 12:20	Session 2: Rotordynamics
12:20 – 14:00	Lunch
14:00 – 15:40	Session 3: Nonlinear dynamics
15:40 – 16:00	Coffee break
16:00 – 17:40	Session 4: Applications
19:30	Conference dinner

Tuesday, 27th of June

9:00 – 9:40	Keynote: Janko Slavič, Multi-institutional collaboration in open-source structural dynamics research
9:40 – 10:40	Session 5: Experimental and operational modal analysis
10:40 – 11:00	Coffee break
11:00 – 12:20	Session 6: Substructuring
12:20 – 13:30	Lunch
14:00	Optional tourist excursion
19:30	Social event and closing of the Conference

Keynote speakers

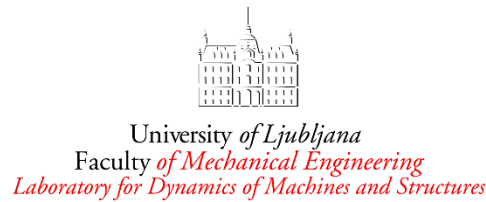
Gunnstein T. Frøseth is the author and maintainer of several popular open-source packages, including `fatpack` which is a python package for fatigue analysis of structures. He is also an Associate Professor at the Department of Structural Engineering, NTNU, where he teaches structural dynamics, signal processing and system identification. His research interest is rooted in condition assessment and service life estimation of structures and includes research in image processing, computer vision, fatigue of materials and load modelling.



Janko Slavič is the maintainer of several open-source packages, including `pyEMA`, `pyUFF`, `pyExSi`, and `FLife`. He is also a co-author of the 2020 Nature Methods publication on the development of Scipy. Dr. Slavič is a full professor at the Faculty of Mechanical Engineering at the University of Ljubljana; he is active in the field of structural dynamics and signal processing. Besides his open-source effort, he has been particularly active in Vibration fatigue, High-speed image-based EMA, 3D printed sensors and actuators.



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OpenSD2023: Open-source Scientific Computing in Structural Dynamics

Summer School, June 27th -28th 2023

Tuesday, 27th of June

12:30 – 13:30	Registration and welcome coffee
13:30 – 15:00	Python distributions, programming environments, the Python ecosystem
15:00 – 15:15	Coffee break
15:15 – 16:45	Python Basics 1 (data-types, operators, ...)
16:45 – 17:00	Coffee break
17:00 – 18:00	Python Basics 2 (functions, modules, ...)
19:30	Welcome reception

Wednesday, 28th of June

9:00 – 10:30	Essential numerical tools (Numpy, Scipy, Matplotlib)
10:30 – 10:45	Coffee break
10:45- 12:15	Signal processing for vibration engineers
12:15 – 13:30	Lunch
13:30 – 15:00	Track 1/2/3, Part 1
15:00-15:15	Coffee break
15:15 – 16:45	Track 1/2/3, Part 2
19:30	Summer school dinner

Thursday, 29th of June

9:00 – 17:00	Optional whole-day tourist excursion
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