

Minisymposium title:

Approaches to Fatigue Life Prediction: From Data to Open-Source Tools

(Fatigue Benchmark Repository (FABER) – COST Action CA109)

Short description of the mini symposium:

Fatigue damage is responsible for up to 90% of structural failures, underscoring the need for accurate and modern prediction methods. Many existing tools still rely on outdated models, creating a gap between research, development, and practical application. This mini symposium, part of the outreach initiative of the COST Action CA109 "Fatigue Benchmark Repository (FABER)", is open to all researchers and aims to foster discussion on building a public database of experimental fatigue data and developing open-source predictive tools. By promoting interdisciplinary collaboration, we strive to modernize fatigue life prediction, enhance reliability, and encourage responsible, data-driven engineering practices.

Please, indicate on BECCSI registration and submission form (<https://www.beccsi2025.com/authors-center/>) that you want to participate to this minisymposium and send an email to asedmak@mas.bg.ac.rs.

Best regards

Aleksandar Sedmak, University of Belgrade, Faculty of Mechanical Engineering
Kraljice Marije 16, 11120 Belgrade, Serbia
[asedmak@mas.bg.ac.rs]