

## Conference

30.01.2024

**Place:**

IMAC XL, Orlando, FL

**Title:**

Enhancing Experimental Modal Analysis Workflow: Supporting Occasional and Expert Users

**Author:**

Denis Beljan, Tim Kamper

**Abstract:**

Experimental Modal Analysis (EMA) is widely employed in the field of structural dynamics, but its execution remains primarily reliant on skilled experts. This paper introduces two distinct approaches aimed at facilitating the EMA workflow for both occasional and expert users. Each approach streamlines a specific step of the EMA process, ultimately yielding more robust and dependable results. One step helps during the planning phase of the measurement setup, another step will support the parameter determination using an AI based approach. The efficacy of both approaches is demonstrated through illustrative examples, showcasing their potential for improving the accessibility and accuracy of EMA across user proficiency levels.

Find more event abstracts in our >> [abstracts archive](#) <<