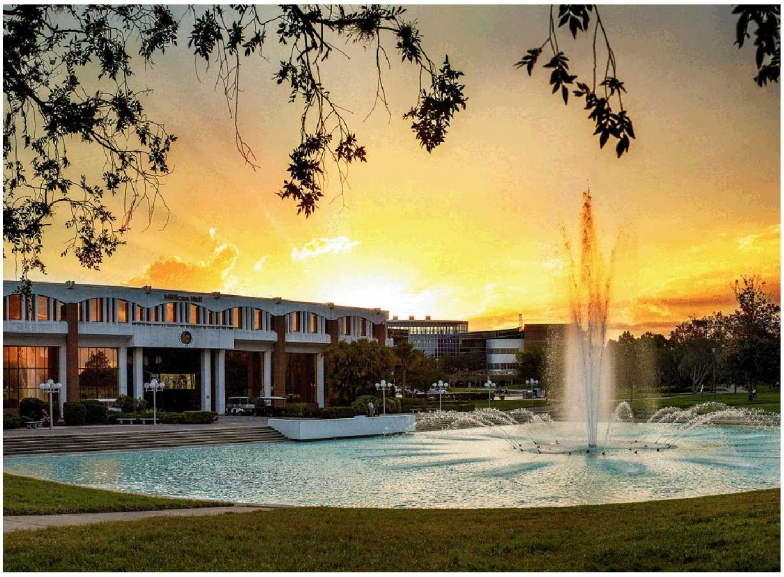
# [MS #86] ENGINEERING MECHANICS EDUCATION: NEW TRENDS, OPPORTUNITIES, AND AI

## Free as a 2nd talk! See below for details



## BASIC INFO

**Conference dates** June 7–10, 2027

**Venue** University of Central Florida, Orlando, Florida

UNIVERSITY OF CENTRAL FLORIDA



**Abstract submission opens** November 13, 2026

**Presenter registration deadline** March 19, 2027

**Abstracts due Dec. 31, 2026**
Submit at emi-conference.org to MS #86

## ABOUT THE SESSION

Generative AI, new computational and sensing tools, and changing student expectations are reshaping how engineering mechanics is taught and learned. This mini-symposium, organized by the EMI Committee on Education, invites instructors, researchers and academic leaders from all EMI subdisciplines to share evidence-based approaches to teaching engineering mechanics.

We welcome both completed studies and work in progress, at the undergraduate and graduate levels. Attendees will leave with strategies they can use in their own courses and a connection to a community of mechanics educators.

**Presenting a technical talk in another EMI 2027 mini-symposium? You can submit an education abstract to this session as a second talk at no extra cost.**

## POTENTIAL TOPICS

- *AI tools in mechanics courses and assessment, including their risks*
- *Project-based, hands-on and laboratory learning with sensors, IoT and AR/VR*
- *Data science and computation across the curriculum*
- *Assessing learning beyond traditional exams and evaluating programs*
- *Faculty development, shared course materials and syllabus sharing*
- *Workforce preparation and K-12 and undergraduate pathways into mechanics*

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