

6th EMI Objective Resilience Student Paper/Presentation Competition

Sponsored by: EMI Objective Resilience Committee (ORC)

Purpose:

The Objective Resilience committee is hosting its sixth annual student competition for graduate students to present their research findings within the broad field of structure, infrastructure, and community resilience. The competition spans different types of structures and infrastructure systems under suite of different single or multiple hazards and involves advanced techniques to model the mechanical characteristics of the built environment under hazards, AI-enabled techniques to assess resilience of large-scale structures and infrastructure systems, and optimization techniques to improve resilience of infrastructure and communities.

Requirements:

1. The lead author should be a graduate student and should be present/registered in the 2024 EMI conference in Chicago.
2. The submission can have co-authors other than the student lead author including student's advisor(s).
3. The paper needs to be accepted to a regular session (or mini symposium) within one of the mini symposia listed under **Section 1100 "Risk, Reliability, and Resilience"**.
4. The lead graduate student should present at the ORC student competition session to present the work (date to be announced).

Process:

- Submit an abstract in the thematic area of objective resilience through the conference paper management system to the track of choice under **Section 1100 "Risk, Reliability, and Resilience"** by the stated conference deadline.
- Forward the abstract acceptance notification and express interest in the competition to Prof. Alice Alipour (alipour@iastate.edu) within one week of the abstract acceptance notice.
- Submit an eight-page full paper to Prof. Alice Alipour (alipour@iastate.edu) **by April 1st, 2024**. A panel of expert judges will review the papers for overall quality and relevancy to the topic of competition. Selected papers will be invited to present at EMI Conference in Chicago by April 15, 2024.
- Register to the EMI conference and present at the student competition session.
- Following the special session presentation, a panel of expert judges will choose the top three winning papers. Criteria will be based on overall quality and relevancy of written paper to the committee's work (50 pts.), presentation quality (30 pts.), and following Q/A period with judges (20 pts.)

Prizes:

The committee will award up to three cash prizes to the top presentations/publications (Co-authoring students will share the monetary prizes. Only student authors are eligible for monetary prizes).

Awards will be presented to the competition winners during an award ceremony specific the student competitions.

Student finalists will be invited to submit an extended version of their papers for a by-invitation-only special collection on Journal of Engineering Mechanics (example from previous years:https://ascelibrary.org/jenmdt/emi_student_finalist_papers).