CSER 2027

conference on systems engineering research

Conference on Systems Engineering Research (CSER)

11 - 14 April 2027
Huntsville, AL, USA

HUNTSVILLE

CALL FOR PAPERS

Theme: Architecting socio-technical systems for a connected and contested world

CSER brings together the community of systems scholars to discuss, workshop, and move forward engineering topics related to systems. CSER embraces a system definition where the humans that impact and are impacted by the system are within the system boundary. CSER 2027 will explore modern complex systems and the user, societal, organizational, physical, and process elements tied to them.

Hosted in the heart of Huntsville and next to Redstone Arsenal, NASA Marshall Space Flight Center, and the Cummings Research Park, special topics at CSER 2027 will explore advancing the aerospace, defense, and space systems and their engineering ecosystems.

The organizing committee for CSER 2027 seek contributions that advance the state of the art of systems engineering and digital engineering in application domains ranging from aerospace, defense, energy, healthcare, infrastructure, and others.

Research Paper Topic Examples

- Architecting in Complex Environments
- Engraining Security in Cyber-Physical Systems
- Sociotechnical Systems Engineering
- New Topics in Systems Engineering Education
- Humans in Engineering Systems
- International Innovation and Enterprise Systems
- Methodological Advances in Systems Engineering and Science
- Human-AI Teaming
- Transdisciplinary Systems Engineering
- Model-Based Systems Engineering
- Adaptive Cyber-Physical Human Systems
- Digital Transformation and Workforce Development
- Digital Engineering and Digital Twins
- Systems Thinking and Complexity Management
- Mission Engineering

Student-led submissions on any topic may be considered for the Barry Boehm award. Look for an opt-in button in the submission system.

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Types of Submissions

The following types of submissions are welcome:

Full Papers	(maximum 10 pages, excluding reference list, which may extend to additional pages) for peer review and podium presentation. Accepted and presented full papers will be published in electronic proceedings.
Extended Abstracts	(maximum 4 pages, excluding reference list, which may extend to additional pages) for podium presentation. Extended abstracts will not be published in electronic proceedings.
Poster Abstracts	(maximum 2 pages) to be considered for poster presentation and/or lightning talk. Poster abstracts will not be published.

Proposals for panels, tutorials, workshops, discussions, and/or interactive sessions (maximum 2 pages) on special topics of interest to the CSER community are highly encouraged. Please reach out to the technical program committee to discuss any special arrangements.

Student-led full papers and extended abstracts are eligible for consideration for the Barry Boehm SERC doctoral research award. Finalists will present in a special session and compete for a cash prize.

Authors must submit using the CSER 2027 template provided on the website. Full paper submissions not accepted may be invited to be reconsidered as extended abstract or poster submissions.

KEY DATES

15 NOVEMBER 2026	Submission Deadline for Full Papers, proposals for panels, tutorials, workshops, discussions, and/or interactive sessions
15 DECEMBER 2026	Full Paper Review Notifications
15 JANUARY 2027	Submission Deadline for Full Paper Revisions and Extended Abstracts and Posters
15 FEBRUARY 2027	Full Papers, Extended Abstracts, and Posters Acceptance Notifications
11 - 14 APRIL 2027	Conference