



IEEE International Conference on Engineering Reliable Autonomous Systems

29-30 May 2025, Worcester, MA, USA

Call for Papers

General Chair

Kevin Leahy (Worcester Polytechnic Institute, USA)

General Co-Chair

Alessandro Pinto (NASA Jet Propulsion Laboratory, USA)

Technical Program Chair

Joanna Olszewska (University of the West of Scotland, UK)

TPC Vice-Chairs

Christian Heinzemann (Robert Bosch GmbH, Germany)

Nico Hochgeschwender (University of Bremen, Germany)

Khaza Anuarul Hoque (University of Missouri-Columbia, MO, USA)

Finance Chair

Dejanira Araiza Illan (Johnson & Johnson, Belgium)

Publicity Chair

Bowen Weng (Iowa State University, USA)

Accessibility Chairs

Zvikomborero Murahwi (University of Johannesburg, South Africa)

Signe Redfield (US Naval Research Laboratory, USA)

IT Chair

Ivan Ruchkin (University of Florida, USA)

Student Chair

Charles Lesire-Cabaniols (ONERA – The French Aerospace Lab, France)

The 1st IEEE International Conference on Engineering Reliable Autonomous Systems (ERAS) will be held in Worcester, MA, USA from May 29 to May 30, 2025. ERAS aims to offer a space for all stakeholders across autonomous system reliability to come together to discuss the key challenges and present progress made towards solving them. The scope of the conference is on all the aspects of engineering reliable autonomous systems, ranging from systems and software engineering to their verification and evaluation. For the purpose of this conference, “autonomous systems” is synonymous with “systems that make their own decisions and can take their own actions”, and includes everything from autonomous decision-making software running in a virtual environment to teams of autonomous robots operating in a distributed physical environment, everything from simple reactive systems with no planning capability to complex systems incorporating machine learning and reasoning engines. Contributions addressing aspects of reliability across the entire life cycle of the system are welcome.

Technical Scope: We invite submissions of original unpublished technical papers on topics including but not limited to:

- General Understanding of Autonomy
- Specification and User Needs
- Design and Systems Engineering for Reliability
- Assessing and Communicating Reliability
- Reliability in Context

Location: The venue is located in Worcester, MA, USA, “the Heart of the Commonwealth,” a center of higher education that is home to eight colleges and universities, including Worcester Polytechnic Institute (WPI). WPI is known for its strong emphasis on combining theory with hands-on, project-based learning, as well as being home to the first Robotics Department in the US.

Conference Website: <https://erasrobotics.org/2025>

Important Dates:

Regular Paper (6-8 pages) Submissions	20 February 2025
Short/Position Paper (2-4 pages) Submissions	20 February 2025
Workshop/Panel Proposal Submissions	20 February 2025
Paper/Workshop/Panel Acceptance Notification	20 March 2025
Camera-Ready Paper Deadline	3 April 2025
Author Registration/Early Registration	3 April 2025
Conference Date	29-30 May 2025

Technical Sponsors:

