

## CALL FOR PAPERS

The **National Conference on Aerospace Quality & Reliability (NCAQR-2026)** to be held on **8<sup>th</sup> May, 2026** at Thiruvananthapuram, aims to bring together researchers, academicians and industries from diverse fields of aerospace sector viz. Avionics, Mechanical, Manufacturing, Chemical, Software, etc to share their ideas. It will serve as a platform for exchange of lessons learnt and best practices from experience gained by practitioners of aerospace, aeronautics and aviation sector. Keynote lectures and invited talks by eminent speakers from leading R&D institutions, academia & industry and panel discussions are planned in the conference for the benefit of the participants. It is a great opportunity for quality aspirants and practitioners to enhance their knowledge-base through multi-disciplinary interactions. NCAQR-2026 offers a very unique opportunity for authors to contribute original research, surveys, case studies and applications.

Unpublished works offering novel insights, in the focus areas are solicited. These works shall adhere to the theme of the Conference **"Assuring Quality and Reliability Excellence for an Aatmanirbhar Aerospace Ecosystem"**. Selected works will be published in the special issue of "Journal of Aerospace Quality & Reliability" as part of the Conference. Prospective authors are invited to submit their manuscripts as per the submission guidelines listed below to [ncaqrpapers2026@gmail.com](mailto:ncaqrpapers2026@gmail.com) on or before **15<sup>th</sup> April, 2026**.

### Focus areas

- Human factors in quality assurance of launch vehicles
- Mission Assurance in manned and interplanetary space missions
- Reliability Engineering for Space & Defence Systems
- Advanced Manufacturing & Metallic Materials Reliability
- Additive manufacturing and reliability
- Quality improvements in non-metallic materials, advanced composites and metamaterials
- Artificial Intelligence (AI) for Reliability and Quality Assurance
- Blockchain, cybersecurity, digital twins and digital transformations in Quality
- International Cooperation and Standards for Aerospace Quality and Reliability
- Reliability in satellite technology and defence communications.
- Private space sector quality frameworks
- Reliability and Safety Considerations for Drone autonomous systems
- Reliability-centered Maintenance (RCM) for Aircraft Systems
- Reliability and Performance Optimization in Missile Systems
- Assurance of Next-generation avionics architectures, systems, and technologies.
- Verification and Validation (V&V) techniques and tools for software.
- Missile Guidance Systems Reliability and Performance

- Safety and cybersecurity analysis of mission critical avionics and software
- Advance Failure Analysis Techniques
- Advancements in Non-destructive testing
- COTS components reliability analysis

### **Submission Guidelines**

- Original contributions that have not been submitted for publication in any other conferences/journals are solicited.
- Authors must ensure the relevance of their submissions to the scope and theme of the conference.
- Prospective authors are requested to submit their manuscripts in **standard IEEE conference paper format (Ref template attached) limited to 4 pages**. The authors shall thoroughly check the manuscripts for spelling, grammar, quality of images and other formatting aspects prior to submission. The manuscripts that are not up-to-the-mark in the above aspects shall be summarily rejected.
- The final copy of the manuscript shall be submitted in **PDF format**.
- The submitted manuscript or its title/abstract should not have been posted publicly on a website or shared through public mailing lists or any other such media.
- **Necessary centre level peer-reviews and department approvals (as applicable) shall be obtained prior to submission and the approval letter shall be attached along with the submitted manuscript.**
- The submitted manuscripts will be peer-reviewed by experts nominated by NCAQR Editorial committee and formal acceptance notification along with review comments will be intimated to authors by mail.
- Authors shall note that their submissions may be subject to an early rejection, if found plagiarised.

### **For NCAQR 2026**

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