

2026 10th

International Conference on RELIABILITY ENGINEERING

Hangzhou, China

July 19-21, 2026

<http://icre.org/>



About ICRE

2026 10th International Conference on Reliability Engineering (ICRE 2026) will be held on July 19-21, 2026 in Hangzhou, China. It's sponsored by Shenzhen Weimin Reliability Systems Engineering Institute; and Laboratory of Analysis of Systems for the Assessment of Reliability, Risk and Resilience (LASAR3) at Politecnico di Milano, Italy. Co-sponsored by Beihang University, China; Harbin Institute of Technology, China. Technically sponsored by IEEE Reliability Society.

The conference gathers global researchers, engineers, industry professionals and academics to share latest advancements, practical applications and future trends in reliability engineering. Amid global sustainable development and technological intelligence, it focuses on the evolution from classical models to AI-driven, resilient systems-addressing core challenges in complex scenarios like aerospace, industrial manufacturing and smart infrastructure. It serves as a key platform for academic-industrial exchange and collaboration to advance reliable, sustainable systems

Call for Papers

Topics of interest for submission include, but are not limited to:

* **Track 1: METHODOLOGY AREAS (All methodological innovations in reliability)**



Track Chair

Hao Chen
Harbin Institute of Technology, China



Co-chair

Fabin Mei
Harbin Institute of Technology, China



Co-chair

Zhigang Sun
Harbin Institute of Technology, China

MA1. Accident and Incident Modeling
MA2. Decision Making under Uncertainty
MA3. Foundations of Risk and Reliability Assessment and Management
MA4. Human Factors and Human Reliability
MA5. Maintenance Modeling and Applications
MA6. Mathematical and Computational Methods in Reliability and Safety
Including: Stochastic processes, Bayesian methods, Monte Carlo simulation, optimization algorithms, machine learning, deep learning, reinforcement learning for reliability
MA7. Simulation for Safety and Reliability Analysis
Including: Discrete-event simulation, agent-based modeling, digital twin simulation, virtual testing
...

* **Track 2: APPLICATION AREAS (All industries with reliability challenges)**



Track Chair

Cen Chen
Harbin Institute of Technology, China



Co-chair

Bokai Zheng
Fuzhou University, China

AA1. Aeronautics and Aerospace
Including: Aircraft systems, spacecraft reliability, propulsion systems, avionics
AA2. Chemical and Process Industry
Including: Process safety, pipeline reliability, hazardous material handling
AA3. Civil Engineering
Including: Bridge reliability, building safety, infrastructure resilience
AA4. Communications Systems and Networks
Including: 5G/6G network reliability, communication protocols, satellite communications
AA5. Critical Infrastructures
Including: Power grids, water systems, transportation networks, smart cities
AA6. Energy Systems
Including: Nuclear power, renewable energy (wind, solar, hydro), energy storage, smart grids
AA7. Healthcare and Medical Industry
Including: Medical device reliability, hospital systems, AI diagnostics, patient safety
...

More Topics, please visit at: <https://www.icre.org/cfp.html>

General Chairs

- Enrico Zio, Mines Paris-PSL University, France and Politecnico di Milano, Italy
- R. Kang, Beihang University, China

Publication

We provide a good opportunity by presenting your updated research knowledge and also by publishing it in the conference proceedings. Submitted paper will be peer reviewed by conference committees, and accepted papers will be included into Conference Proceedings which will be indexed by SCOPUS and Ei Compindex.

Submission

1. Full Paper (Presentation and Publication)
 - The paper must be written in English.
 - All submissions will undergo a peer-review process by the conference committee.
 - The paper should be at least FIVE Pages including all figures, tables, and references.
 - The paper should be submitted as a PDF document in .pdf format.
 - Submitted paper must be unpublished.
 - Accepted papers will be invited for oral presentation or poster presentation and will be included in the conference proceedings.
2. Abstract (Presentation only)
 - Abstracts will be considered for presentation (oral/poster) only without publication.
 - The abstract must be written in English.
 - Abstracts should be no more than 300 words and clearly outline the title, purpose, methods, and outcomes of the research or practice being described.
 - All submissions will undergo a peer-review process by the conference committee.

* Welcome to submit the paper or abstract by Electronic Submission System: <https://www.zmeeting.org/submission/icre2026>
More details about submission, please visit at: <https://www.icre.org/sub.html>

Conference Program

July 19, 2026 | CONFERENCE
July 20, 2026 | CONFERENCE + COURSE + TRACKS
July 21, 2026 | TECHNICAL EXCELLENCE & TRIBUTE
July 12-25, 2026 | Young Scholar Symposium + 2026 Beihang International Summer School

Conference Venue

Conference Venue:
Hangzhou International Innovation Institute of Beihang University
Address:
No. 166, Shuanghongqiao Street, Pingyao Town, Yuhang District, Hangzhou City
Hangzhou, China

Hangzhou, a renowned Jiangnan city blending millennia of heritage and poetic scenery, boasts three world cultural heritage sites. West Lake ripples with romance; Liangzhu Ruins hold ancient wisdom; the Grand Canal carries folk vibes. Timeless Song Dynasty elegance meets trendy fun, and delicious local cuisine delights the taste buds. A perfect mix of classic and modern, it awaits visitors from all over the world.

Important Dates

Paper Submission Deadline: June 10, 2026
Notification Deadline: June 25, 2026
Camera-ready Date: June 30, 2026

2026 第十届 可靠性工程国际会议

中国·杭州

2026年7月19-21日

<http://icre.org/>

2026 年第十届国际可靠性工程会议 (ICRE 2026) 将于 2026 年 7 月 19-21 日在中国杭州举办。本次会议由深圳为民可靠性系统工程研究院、意大利米兰理工大学可靠性、风险与韧性评估系统分析实验室 (LASAR3) 主办, 中国北京航空航天大学、中国哈尔滨工业大学协办, 由 IEEE 可靠性学会技术支持。会议主题为“面向可持续未来的可靠性工程: 从经典可靠性到智能韧性系统”。

ICRE 会议往届在意大利举办, ICRE 2026 为第一次在中国境内举办。本次大会汇聚全球的研究人员、工程师、行业专业人士和学术界代表, 分享可靠性工程领域的最新进展、实际应用及未来趋势。在全球可持续发展和技术智能化背景下, 大会关注从经典模型向人工智能驱动的韧性系统的演变——应对航空航天、工业制造及智能基础设施等复杂场景中的核心挑战。大会为学术界与工业界的交流与合作提供了重要平台, 推动可靠且可持续系统的发展。

征稿主题

ICRE 征稿主题包括, 但不限于:

* 主题 1: 方法学领域 (可靠性方面的所有方法创新)



Track Chair

陈昊

哈尔滨工业大学, 中国



Co-chair

梅发斌

哈尔滨工业大学, 中国



Co-chair

孙志刚

哈尔滨工业大学, 中国

- MA1. 事故与事件建模
- MA2. 不确定性下的决策制定
- MA3. 风险与可靠性评估及管理基础
- MA4. 人为因素与人员可靠性
- MA5. 维修建模与应用
- MA6. 可靠性与安全中的数学及计算方法
包括: 随机过程、贝叶斯方法、蒙特卡洛模拟、优化算法、面向可靠性的机器学习、深度学习、强化学习
- MA7. 安全与可靠性分析仿真
包括: 离散事件仿真、智能体建模、数字孪生仿真、虚拟测试
- MA8. 组织因素与安全文化
- MA9. 故障预测与系统健康管理 (PHM)
包括: 剩余使用寿命预测、状态监测、物联网集成、信号处理
- MA10. 韧性工程
包括: 系统恢复、适应能力、复杂网络韧性、连锁故障分析
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* 主题 2: 应用领域 (面向存在可靠性挑战的各类行业)



Track Chair

陈岑

哈尔滨工业大学, 中国



Co-chair

郑博恺

福州大学, 中国

- AA1. 航空航天领域
包括: 航空器系统、航天器可靠性、推进系统、航空电子设备
- AA2. 化工与流程工业领域
包括: 流程安全、管道可靠性、危险物料处理
- AA3. 土木工程领域
包括: 桥梁可靠性、建筑安全、基础设施韧性
- AA4. 通信系统与网络领域
包括: 5G/6G 网络可靠性、通信协议、卫星通信
- AA5. 关键基础设施领域
包括: 电网、供水系统、交通网络、智慧城市
- AA6. 能源系统领域
包括: 核能、可再生能源 (风能、太阳能、水能)、储能、智能电网
- AA7. 医疗健康与医药行业领域
包括: 医疗设备可靠性、医院系统、人工智能诊断、患者安全
- AA8. 信息技术与电信领域
包括: 云计算可靠性、数据中心韧性、软件系统
- AA9. 陆地交通领域
包括: 铁路系统、汽车可靠性、智能交通系统
- AA10. 制造业领域
包括: 工业 4.0/5.0、机器人系统、生产线可靠性、质量控制
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更多征稿主题请见: <https://icre.org/cfp.html>

主办单位  **LASAR³**

技术支持  IEEE 75th Reliability Society

协办单位  杭州市北京航空航天大学国际创新研究院
(北京航空航天大学国际创新学院)
HANGZHOU INTERNATIONAL INNOVATION RESEARCH INSTITUTE OF BEIHANG UNIVERSITY

协办单位  **哈尔滨工业大学**
HARBIN INSTITUTE OF TECHNOLOGY

General Chairs

- Enrico Zio, 巴黎高等矿业学院 - 巴黎文理研究大学, 法国; 意大利米兰理工大学, 意大利
- 康锐, 北京航空航天大学, 中国

投稿方式

1. 上传文章到电子投稿系统: <https://www.zmeeting.org/submission/icre2026>
2. 或发送文章至会议邮箱: icre_conf@outlook.com

提示:

1. 全文投稿 (含报告与出版)
 - 稿件须以英文撰写。
 - 所有投稿均由会议委员会进行同行评审。
 - 稿件篇幅不少于 5 页, 包含所有图表及参考文献。
 - 稿件须以 PDF 格式提交。
 - 投稿稿件须为未发表的原創成果。
 - 录用稿件将受邀进行口头报告或海报展示, 并收录至会议论文集。
 2. 摘要投稿 (仅作报告)
 - 摘要仅用于申请报告资格 (口头报告 / 海报展示), 不纳入出版范围。
 - 摘要须以英文撰写。
 - 摘要字数不超过 300 词, 须清晰阐明所涉研究或实践的标题、研究目的、研究方法及研究成果。
 - 所有投稿均由会议委员会进行同行评审。
- * 详细信息请见 --- <https://icre.org/sub.html>

会议出版

会议收录的文章将出版在会议论文集中出版, 并提交 EI Compendex, Scopus 等其他检索机构审核。

重要日期

投稿截止日期: 2026年6月10日
审稿通知日期: 2026年6月25日
注册截止日期: 2026年6月30日

会议日程

2026年7月19日 - 签到注册
2026年7月20日 - 开幕式 + 主旨报告 + 作者报告
2026年7月21日 - 开幕式 + 主旨报告 + 作者报告
2026年7月12-25日 - 青年学者论坛 + 2026北航国际暑期学校

会址

杭州市北京航空航天大学国际创新研究院 (北京航空航天大学国际创新学院)
地址: 杭州市余杭区瓶窑镇双红桥街166号
<https://icre.org/venue.html>

杭州, 一座融千年文脉与诗画风光的江南名城, 三大世界文化遗产勾勒其独特魅力。西湖碧波漾诗意, 良渚遗址藏远古智慧, 大运河流淌南北烟火。宋韵风雅浸润红墙古社, 新潮玩法解锁别样体验, 鲜醇杭帮菜抚慰味蕾。古典与现代交织, 漫步街巷皆是惊喜, 正静待八方游客前来探寻。

联系方式

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