

Call for Session Organization and Abstracts for INFORMS Conference on Quality, Statistics, and Reliability (ICQSR), 2023

June 06 – 08, 2023, North Carolina State University, Raleigh NC, USA

The first INFORMS Conference on Quality, Statistics, and Reliability (ICQSR) will be held in person at North Carolina State University in Raleigh, NC from June 06-08, 2023. ICQSR aims to provide an international forum for the exchange of research innovations and advancements that reinforce the scientific essentials – quality improvement, statistical learning, and reliability assurance – and embrace emerging practical challenges. The theme of ICQSR 2023 is Artificial Intelligence (AI) & Analytics for Future Industry, with potential applications in manufacturing, energy, healthcare, human-machine systems, etc. By integrating the efforts from both academia and industry, ICQSR intends to promote original, fundamental, and transdisciplinary research that potentially makes timely and long-lasting impacts in a broad range of applications.

The Organizing Committee invites you to organize technical sessions, such as invited/contributed sessions, tutorial sessions, and panel discussion sessions, and/or submit abstracts of technical presentations that fit in the following theme-track matrix:

Conference Tracks	Conference Theme – AI & Analytics for Future Industry			
	Manufacturing	Energy	Healthcare	Human-Machine Systems
Quality	<ul style="list-style-type: none">• Session types Distinguished session*, regular-talk/flash-talk session, panel/tutorial session†, etc.• Presentation types Regular talk (30-min), flash talk (8-min), etc.			
Statistics				
Reliability				

* Distinguished researchers and practitioners as speakers, one talk per session with general discussion, program committee review and approval needed;

† Program committee approval needed.

Related topics include but are not limited to:

- Process monitoring and control
- Analytics for smart & advanced manufacturing
- Systems informatics and control
- Design and analysis of computer experiments
- Reliability modeling
- Maintenance decision-making
- Human-machine interaction
- Data quality assurance and data visualization
- Quality and reliability analysis in Industry 4.0
- Data analytics in healthcare applications
- Science/Physics informed machine learning
- Prognostics and health management
- Machine learning and data mining
- Smart & resilient infrastructure

Conference website: <https://informs-qsr.wordpress.ncsu.edu/>

Session proposal submission: <https://forms.gle/mqw2D8JNyMxCjfw27>

Contributed Abstract submission: <https://forms.gle/TCBknQ5Dyzm5ZRGaA>

Important dates:

Mar. 07, 2023	Deadline for session proposal submission and abstract submission
Mar. 13, 2023	Notification of abstract acceptance
Apr. 3, 2023	Registration commencement
Jun. 6-8, 2023	ICQSR 2023

The Program Committee's goal is to schedule all technical sessions on Tuesday, Wednesday, and Thursday morning. The meeting will maintain a balance of presentations delivered as **distinguished talks** (*with one*

such talk in a single session followed by general discussion), **regular talks** (with **three** such talks in a single session), **flash talks** (with **ten** such talks in a single session) and posters.

Session Chair Responsibility Updates:

- A session chair needs to select the **potential application(s)** and the **track** of the session to be proposed. Multiple applications may be selected. The session chairs are encouraged to identify additional applications by selecting “Other” and providing more specific information.
- A session chair may choose to organize a distinguished session, a regular-talk session (with **three** regular talks), a flash-talk session (with **ten** flash talks), or other special sessions. Please indicate your preference in the request form. If you have multiple session requests, please submit them in separate request forms.
- If a regular-talk session has *less than* three (3) presentations, the session chair may contact the relevant track chairs to discuss options for merging your session with another session. Inviting senior members to present in your session is highly encouraged.
- The INFORMS abstract submission platform will have distinct entries for regular-talk sessions and flash-talk sessions to be filled by session chairs.
- Session chairs are encouraged to explicitly announce the flash talk presentation option at the time of author invitation and prioritize finding the flash talk presenters. It is generally best practice to ask each presenter their preference, but a session chair may choose to recruit presenters specifically for each talk type.

Key Contacts:

Quality track chair:	Ran Jin (jran5@vt.edu)
Statistics track chair:	Xinwei Deng (xdeng@vt.edu)
Reliability track chair:	Haitao Liao (liao@uark.edu)
Special sessions:	Adel Alaeddini (adel.alaeddini@utsa.edu) & Jian Liu (jianliu@arizona.edu)

For general questions about ICQSR 2023, please feel free to contact the conference secretariat at infor.icqsr@gmail.com.