

# Call for Participation

INFORMS Quality, Statistics, and Reliability (QSR) Section

2021 QSR Data Challenge Competition

In-Situ Quality Process Monitoring in Additive Manufacturing

The Quality, Statistics, and Reliability (QSR) Section of the Institute for Operations Research and the Management Sciences (INFORMS) announces the Data Challenge Award to recognize excellence in data modeling techniques among the submissions to the 2021 QSR Data Challenge Competition. This award program brings prestige to the QSR Section as well as to the recipients honored.

**Date:** October 23, 2021 (to be held during the 1<sup>st</sup> QSR Workshop)

**Physical Location:** Anaheim, CA

**Final Submission Deadline:** September 12, 2021

**Finalist Announcement:** September 24, 2021

**INFORMS Website:** <http://meetings2.informs.org/wordpress/anaheim2021/>

**INFORMS QSR Website:** <https://connect.informs.org/qsr/home>

**Data Challenge Website:** <https://www.ic.polimi.it/open-challenge-qsr/>

This year's QSR Data Challenge problem is made possible by a collaboration between Politecnico di Milano (Italy) and Trumpf ([www.trumpf.com](http://www.trumpf.com) - Germany) fostering open data science for in-situ quality process monitoring in Additive Manufacturing.

**Three to four finalists** for the Data Challenge Award will be selected to make presentations at the First INFORMS Workshop on Quality, Statistics, and Reliability prior to the 2021 INFORMS Annual Meeting. The workshop will be held on October 23, 2021 in Anaheim, CA. The winner will be announced at the QSR Business Meeting later at the Annual Meeting. All finalists will receive an award certificate. The winner will also receive a plaque of recognition.

## Eligibility Requirements:

- At least one member of a finalist team must be a QSR member.
- Team submissions (with no more than four members per team) are welcome. We especially encourage the participation of industry members on the teams.
- At least one member of each of the finalist teams must be committed to presenting their work in-person during the INFORMS Workshop on Quality, Statistics, and Reliability. In the unfortunate case that the workshop is to be virtually held due to COVID, we will follow INFORMS guidelines and seek alternative presentation formats.

Full details for the competition can be found in

<https://www.ic.polimi.it/wp-content/uploads/2021/06/In-situ-quality-monitoring-POLIMITrumpf-Data-Challenge-description-PDF-V2.pdf>

Submission instructions will be announced by **August 20, 2021**. Submission documents will include source codes (at this time, written only in Python) that can be run on a test set (which is not shared with the participants), and a ReadMe.docx file. The organizers of the Data Challenge Award will host a 30-min Q&A Zoom session during the last week of July 2021. The details of the session will be sent to all interested participants who requested to download the dataset.

## Contacts:

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