
**The 13th International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering
(QR2MSE 2023)
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Special Session: Data-driven Quality Modeling and Control

Data-driven quality modeling and control play a critical role in various industries for achieving high-quality products and continuous improvement. The advancements in data analytics, machine learning, and statistical techniques have revolutionized the field of quality management.

In order to further improve the methods of quality modeling and control, this special session aims to discuss recent advances in quality techniques. The list of topics includes, but is not limited to:

- Data-driven quality modeling methods and algorithms
- Statistical quality control
- Machine learning-based quality control approaches
- Quality prediction and anomaly detection techniques
- Monitoring and diagnosis
- Applications of quality big data
- Data integration and information fusion for quality modeling
- Data-driven quality design
- Six sigma management
- Total quality management

Chair: Shichang Du, Shanghai Jiao Tong University, China

Shichang Du received the Ph.D. degree in industrial engineering and management from Shanghai Jiao Tong University, Shanghai, China, in 2008. He is currently a Professor with the Department of Industrial Engineering and Management, Shanghai Jiao Tong University. His current research interests include quality control with analysis of variation flow, monitoring, and intelligent diagnosis and prognosis of manufacturing systems. He has published more than 70 papers in journals such as ASME Transactions on Manufacturing Science and Engineering, IEEE Transactions on Instrumentation and Measurement, Journal of Intelligent Manufacturing and Computers and Industrial Engineering. Dr. Du is an Area Editor for Computers & Industrial Engineering, and Associate Editor for Flexible Services and Manufacturing journal, and Editorial Board Member for IEEM. (E-Mail: lovbin@sjtu.edu.cn)

Chair: Yiping Shao, Zhejiang University of Technology, China

Yiping Shao received the Ph.D. degree in mechanical engineering from Shanghai Jiao Tong University, Shanghai, China, in 2020. He is currently an Assistant Professor with the College of Mechanical Engineering, Zhejiang University of Technology. His current research interests include quality control, measurement and visual inspection, intelligent manufacturing, monitoring and diagnosis. He has multiple published papers in journals, such as Measurement, ASME Transaction on Manufacturing Science and Engineering and Journal of Manufacturing Processes. He is the Early Career Advisory Board of Measurement and Measurement: sensors. (E-Mail: syp123gh@zjut.edu.cn)