



The 14th International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE2024)

July 24-27, 2024, Harbin, Heilongjiang, China

Special Session on:

Reliability Analysis and Optimization of Complex Systems and Networks

Advances and interdisciplinary integration in science and technology have resulted in more powerful computing and engineering systems that can handle more complicated missions. Components of these modern technological systems often have significant interactions or dependencies. The increasing complexity and dependencies require more efficient and practical reliability models and solutions.

This special session aims to present original research on the **Reliability Analysis and Optimization of Complex Systems and Networks**. The special session focuses on the reliability modeling and analysis of complex systems, including systems subject to competing failures systems, phased-mission systems, cloud computing systems, car safety systems, network systems, cascading failures systems. Topics of interest include, but are not limited to: Binary decision diagram (BDD) or Multiple-valued decision diagram (MDD) based combinatorial method, reliability modeling and analysis of cascading/competing failures, reliability analysis of multi-mode failures, network reliability modeling and optimization, reliability analysis of multi-state systems and phased-mission systems, and other related topics.



Prof. Yuchang Mo
Huaqiao Univeristy, China
Email: yuchangmo@sina.com



Dr. Xuji Jia
Minzu University of China, China
Email: Jiaxujie@muc.edu.cn



Dr. Chaonan Wang
Jinan Univeristy, China
Email: c_wang@jnu.edu.cn



Dr. Yujie Wang

University of Science and Technology
Beijing
ywang1388@ustb.edu.cn



Dr. Guilin Zhao

Southwest Jiaotong University
guilinzhao@swjtu.edu.cn