
The 2017 IEEE Workshop on Reliability Modeling and Optimization

Reliability of a system conveys information about the absence of failures, and is usually define as the probability that the system will perform its intended function for a specified time period when operating under normal environmental conditions. Reliability theory, which is the foundation of reliability engineering, deals with the interdisciplinary use of probability, statistics and stochastic modeling, combined with engineering insight into the design and the scientific understanding of the failure mechanisms, to study the various aspects of reliability. With the development of the complex systems, such as advanced aircraft, space station and nuclear power and so on, reliability theories and applications are more and more attention in this century. This workshop serves as a forum for the latest achievements of the advanced theory of reliability modeling and optimization, as well as more focuses on the application of reliability theories. We are looking forward it can attract more researchers to join us.

The topics of interest include, but are not limited to:

- Signature
- k-out-of-n systems
- Network reliability
- Degradation methods in reliability
- Fault tree and decision diagram
- Multi-state and continuous-state system reliability
- Importance measure
- Optimization methods in reliability
- Maintenance modeling and analysis
- Warranty modeling and analysis
- Case studies in reliability

Important Dates:

- April 15, 2017 Submission deadline (**extended**)
- May 25, 2017 Author notification
- June 5, 2017 Camera-ready dues
- July 25-29, 2017 Workshop

Submission:

Authors are invited to submit original, unpublished research papers as well as industrial practice papers. Simultaneous submissions to other publications and conferences are not permitted. The length of a camera ready paper will be limited to eight pages, including the title of the paper, the name and affiliation of each author, a 150-word abstract, and up to 6 keywords. Authors must follow the IEEE Computer Society Press Proceedings Author Guidelines to prepare papers.

Program Chairs:

Lirong Cui Beijing Institute of Technology, China
Shubin Si Northwestern Polytechnical University, China

General Inquiries:

For more detailed and updated information, please contact Professor Lirong Cui at lirongcui@bit.edu.cn or Professor Shubin Si at sisb@nwpu.edu.cn.