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Annals of Operations Research

Special Issue: Advances in Reliability and Statistical Computing for Intelligent Systems

The era of AI, through its focus on the reliability and statistical machine computing of intelligent systems in everyday applications and the service industry, has experienced a dramatic shift in recent years. Such systems require reliable and timely responses.

Articles concerning new theoretical research and methods in advanced reliability and statistical computing for intelligent systems are solicited. Preference will be given to papers with real-world applications over purely theoretical papers. Topics of interest include, but are not limited to:

- Mathematical reliability and statistical methods
- Big data modeling and prediction
- Statistical learning algorithms, models and theories
- Machine learning models for intelligent systems
- Text mining and deep machine learning
- Intelligent system dependability and performability
- Reliability modeling and optimization
- High-dimensional data analysis
- Statistical inference for intelligent systems
- Industrial case studies in intelligent systems, including field and service robotics, medical care, education, visual surveillance, intelligent transportation, etc.

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Authors should submit a cover letter and a manuscript by **August 30, 2025**, via the Journal's online submission site. Manuscripts submitted after the deadline may not be considered for the special issue and may be transferred, if accepted, to a regular issue.

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Papers will be subject to a strict review process under the supervision of the Guest Editor, and accepted papers will be published online individually, before print publication.

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