

## Special Issue

# New Trends in Lifecycle Reliability Engineering

### Message from the Guest Editors

For real-life dynamic and/or vibratory systems, the time-varying and highly nonlinear performance is greatly affected by time-varying loads, operating conditions, and stresses, among others. This brings new challenges in reliability analysis and design for time-varying systems, including the construction of time-varying limit state functions based on physics of failure, time-varying uncertainty quantification, correlation analysis of time-varying uncertainties, and time-varying design optimization algorithms under uncertainty. This special issue aims to invite authors to submit full-length papers with original theoretical, numerical or experimental research contributions and innovative concepts that address all aspects of reliability analysis and design for time-varying systems. Also, applications in areas such as robotic systems, machine tools, battery systems, and transportation systems are welcome. Open for Submissions:

[https://www.mdpi.com/journal/applsci/special\\_issues/life\\_cycle\\_reliability\\_engineering](https://www.mdpi.com/journal/applsci/special_issues/life_cycle_reliability_engineering)

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### Guest Editors

Prof. Dr. Zhonglai Wang

Prof. Dr. Liping He

Dr. Pengpeng Zhi

Dr. Yulin Jin

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### Deadline for manuscript submissions

closed (20 October 2022)



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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