



Call for Papers

Special Issue on *Maintenance Modelling and Optimization* published in *Journal of Quality in Maintenance Engineering*, ISSN: 1355-2511

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SCOPE: After the classical maintenance model proposed by Barlow and Hunter, mathematical sophistication of maintenance models has increased. After the work by Barlow and Hunter, the concepts of minimal repair and imperfect maintenance became more and more established and a large variety of extensions and modifications of the classical maintenance policies have been proposed. Furthermore, at the same time, the growing importance of maintenance has generated an increasing interest in the development and implementation of optimal maintenance strategies for improving system reliability, preventing the occurrence of system failures, and reducing maintenance costs of deteriorating systems. Eventually, the *Maintenance Modelling and Optimization* has become one of the most important research areas in Reliability Engineering.

In this special issue, we focus on Recent Developments in the *Maintenance Modelling and Optimization* and the aim of this special issue is to deliver new stochastic modelling and optimization methods to the researchers in the area. The 7th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2016) will be held in Seoul, Korea, 24-26 August, 2016. It is one of core conferences on reliability engineering in Asia-Pacific Area. Based on the outstanding papers on the *Maintenance Modelling and Optimization* presented in APARM 2016, we plan to edit a special issue of the *Journal of Quality in Maintenance Engineering* (Emerald). The manuscripts submitted to the journal special issue should be substantial extensions of the original conference papers in order to be independent of the conference proceedings.

Topics relevant to *Maintenance Modelling and Optimization* will be welcomed. Especially, the following topics (but are not necessarily limited to) are of special interest:

- New stochastic models for describing the failure and repair process of a system

- Modelling of a new imperfect repair model
- Maintenance modeling and analysis under population heterogeneity
- Maintenance modelling with application to burn-in procedure
- Maintenance modelling with application to warranty policy
- Stochastic modelling of a multi-state system and condition-based maintenance
- Maintenance modelling under competing risks and optimization

IMPORTANT DATES:

October 30, 2016: First submission date (open date of Online-Submission)

December 31, 2016: Paper submission due date for the special issue

April 31, 2017: Revision due date in the first round of review

June 30, 2017: Notification of acceptance/rejection of the special issue papers

INSTRUCTIONS TO THE AUTHORS: Authors are strongly encouraged to present their papers in APARM 2016, 24-26 August, 2016, Seoul, Korea, but are not mandatory for inclusion of them in the special issue. The journal has a manuscript submission system, which can be seen at [ScholarOne](#). All articles in the special issue have to be submitted through ScholarOne, and all the papers will be double blind peer reviewed by at least two scholars. In preparing their manuscripts, the authors are requested to check carefully the Instructions to Authors on the journal homepage and should follow these instructions completely with a given format. Otherwise, manuscripts may be rejected and returned to the authors without review.

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