
Guest editorial: Recent communications in system reliability, quality and supply chain management

Guest editorial

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Reliability modeling is one of the most fundamental attributes in quality metrics and has received considerable attentions in all engineering fields in the past several decades. As an integral component of most businesses, the supply chain management is essential to the success of a company and the reliability and quality of services provided by the company. An effective supply chain management may reduce the operating cost and improve the quality of life significantly. This special issue presents recent developments and achievements in the areas of system reliability, quality and supply chain management. Papers presented in this issue cover a wide range of technical methods, and diverse types of applications including software systems, logistics systems, Internet of things (IoT)-based traceability systems, network systems, healthcare systems and different industry systems.

The special issue is focused on the following topics:

- (1) Comprehensive review of the current maintenance strategies.
- (2) Optimal scheduling policy for upgraded software systems subject to updates.
- (3) Triple bottom line approach for coordinating three-echelon apparel supply chain systems, and methods of predicting the software reliability and managing the release time considering coverage.
- (4) Routing and collection load decisions for a green logistics system of delivering lunchboxes.
- (5) Performance indicators ranking problem for an IoT-based traceability system used in the agriculture supply chain.
- (6) An approach for evaluating the signature reliability of a ring-shaped network system.
- (7) Best-worst method and the TOPSIS method for empirical evaluation of code smells for open-source software systems.
- (8) Production interruption problem in the batch production of the tobacco industry using a multiphase acceptance sampling model.
- (9) Multi-criteria decision-making method to study the performance of sustainable healthcare supply chain systems under the grey environment.

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