

Special Issue

New Trends in Decision Analysis and Reliability Management

Message from the Guest Editors

Reliability management addresses the estimation, prevention, and management of high levels of “lifetime” engineering uncertainty and risks of failure, which has been widely used in various industries to identify and eliminate potential risks. Several different reliability management instruments have been designed, such as failure mode and effect analysis (FMEA) and fault tree analysis (FTA), etc. Moreover, it is difficult for reliability management experts to express their risk assessments in an accurate way. The fusion of imprecise risk assessments associated with multiple experts is a basic issue of reliability management. Group decision making is focused on the fusing of individual assessments, which has achieved some new progress in recent years. Therefore, integrating the new progresses of group decision making into reliability management is a promising research paradigm. This Special Issue aims to invite prospective authors to contribute high-quality research papers on the latest developments and applications of reliability management, decision analysis, or hybrid models in the broad fields.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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