Special Issue

Practice and Application of Emergency Management in Social Systems: Mathematical Modeling and the Use of Information Technology

Message from the Guest Editors

To achieve effective control of the occurrence of emergency disasters and the expansion of damage, many countries, regions, and organizations adopt mathematical optimization methods to ensure the stable operation of social systems by integrating, allocating, coordinating, and utilizing resources in emergency management. The approaches that are applied include the use of “Multi-objective optimization”, “Multi-criteria decision making”, “Fuzzy uncertainty”, “Linear and nonlinear programming”, “Monte carlo method”, or through the combination of “Big data”, “Cloud computing”, “System simulation”, “Machine learning”, etc. The themes of interest in this Special Issue include the above-mentioned mathematical methods and can be incorporated with the above-mentioned information technology in the "Engineering management", "Medical and care management", "Educational administration", and "Public management", and "Operation management of general enterprises and social organizations" domains, etc. The papers are not limited to the above-mentioned contents.

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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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