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Resilient Infrastructure: Mathematical Modeling, Assessment and Smart Sensing

Guest Editors:

Dr. Zhongkai Huang

Prof. Dr. Dongming Zhang

Dr. Xing-Tao Lin

Dr. Dianchun Du

Dr. Jin-Zhang Zhang

Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

As big cities becoming increasingly full, there is a growing demand for infrastructures, i.e., buildings, bridges, rail transit. These facilities are functioning as cross-scale complex network systems, and their serviceability is closely related to human life, water conveyance and energy supply. Therefore, it is essential to enhance the resilience of the infrastructure using multiple modern technologies. The resilient infrastructure must be capable of avoiding catastrophic engineering failures and recovering soon to its serviceability. We propose this issue aiming to build a stage for communicating the most recent progress in achieving the resilient infrastructure by advanced computational modeling, risk assessment and smart sensing. It is believed that building resilient infrastructures will establish a more resilient and sustainably city.

This Special Issue focuses on the latest development in modeling, assessment and smart sensing. New insights into the scientific knowledge or engineering practice in infrastructure resilience assessment and enhancement are also welcomed. We invite you to contribute and submit your latest research work.

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Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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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Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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