Special Issue

Transportation and Infrastructures Under Extreme Weather Conditions

Message from the Guest Editor

Extreme weather events (e.g., typhoons, tornadoes, downbursts, etc.) have become more commonplace around the world in recent years under global warming, creating significant problems for our metropolitan infrastructure and transportation systems. In order to reduce losses and offer pertinent disaster advice, this Special Issue focuses on emerging technology associated with early warning and monitoring systems under extreme weather conditions. The following are examples of possible research topics; however, this is not an exhaustive list:

- Extreme weather-related disasters and losses in urban areas and risk, vulnerability, and impacts.
- Disaster dynamics, turbulence measuring, complex urban aerodynamics, modelling, and control.
- Monitoring and early warning systems for extreme weather and associated meteorological hazards.
- Urban transportation resilience and sustainability, infrastructure testing interventions, and physical infrastructure upgrades.
- Extreme weather and climate change impacts on railway infrastructure.
- Driving safety, train aerodynamics, train longitudinal dynamics, and high-speed trains under crosswinds.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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