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Sustainable Design and Risk Assessment for Railway Engineering

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Message from the Guest Editors

With the increasing complexity of railway construction environments, the railway suffers increasingly more risks from surrounding natural and humanistic environments, such as geological risks, operational risks, economic risks, etc. It is vital to properly account for different kinds of risks on the railway during the design process. On the other hand, the impacts of the railway on the surrounding environments through its lifecycle are also important, and need to be considered in the design process. Consequently, assessing the impacts of different railway structures (i.e., tunnels, bridge, cuts, and fills) on the natural ecology, economy, and society is a vital task. Therefore, it is necessary to explore the coupling relationships between railway structures and multiple environments to mitigate the impacts among them to realize a sustainable railway design.

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Message from the Editor-in-Chief

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