

Special Issue

Risk and Resilience Analysis of Road Tunnels

Message from the Guest Editors

To meet the continuous growth in traffic demand, the number of road tunnels worldwide has increased day by day. The design of new road tunnels or the adaptation of existing ones to meet the minimum safety requirements is often the only solution to overcoming certain obstacles. However, this has raised many concerns among practitioners in the transport sector, particularly in relation to fire safety. In fact, several studies and tragic real events have shown that the occurrence of fires in tunnels can lead to significant economic losses and deaths due to their enclosed nature. Consequently, it is necessary to provide more in-depth scientific knowledge on fire safety in road tunnels. Risk analysis might be a useful tool for this purpose. Moreover, the occurrence of a fire in a road tunnel could cause its partial or complete closure, with consequences that might also extend along the nearby transportation network. The resilience of road tunnels, or more generally of the infrastructure containing them, is thus a crucial issue of economic and social interest. Therefore, this Special Issue focuses on risk and resilience analysis in the event of fires in road tunnels.

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