

Special Issue

Railway Traffic Control and Safety

Message from the Guest Editor

Railways are under increasing pressure to raise efficiency without sacrificing safety. In support of these challenges, this Special Issue aims to assess railway traffic control, a core railway activity that leans heavily on efficiency and safety to improve its performance. Railway systems should be able to offer performance, which means guaranteeing traffic flows with minimum disruption, based on high levels of operational availability, safety, and security. The network will be engineered for resilience and optimized by interoperable real-time traffic management that allows for intelligent, predictive, and adaptable operational control of train movements, maximizes system capacity and saves energy. Rail mobility should remain one of the safest and most environmentally friendly modes of transport. This requires continuous innovation and development in these topics:

- Railway traffic operation and safety management;
- Railway traffic sustainable management and system reliability;
- Intelligent transport system and automatic train operation;
- Interoperability of railway system;
- Capacity management of railway infrastructure.

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.

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