



Application of Intelligent Transportation Systems in Railway

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Deadline for manuscript submissions:

closed (20 September 2022)

Message from the Guest Editors

ITS are defined as those systems that integrate different technologies in a synergetic way and follow systems engineering concepts to develop and improve transportation systems. This SI welcomes papers on current and future applications of ITS in railway systems to make rail systems safer and smarter, to provide intelligent and friendly service to passengers and goods, and to optimize operations and control of rail systems while guaranteeing high-standard efficiency.

Topics (but not limited to):

- Infrastructure (e.g., planning, construction, maintenance, power supply systems, communication systems, signaling systems);
- Rail traffic management (e.g., capacity assessment, line planning, timetabling, traffic control, train operation, energy efficiency, crew scheduling);
- Vehicle (e.g., ATO systems, light materials/new wagon concepts, onboard batteries, energy-saving speed profiles, virtual coupling);
- Rail freight (e.g., planning, operation, new rail freight vehicle concepts, optimal vehicle composition and wagons disposition, urban rail freight);
- Information from/to customers (e.g., smart card data, mobile apps, disruptions management);





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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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