Special Issue

Interactions between Railway Subsystems

Message from the Guest Editor

At present, the proportion of railway system in public transportation systems is increasing under the global goal of greenhouse gas reduction. In this respect, building a highly efficient railway system is a very important task for us. The railway system consists of several subsystems, such as vehicles, engineering structures, power supply systems, and signal and communication systems. The interactions between these subsystems have very significant effects on the performance and efficiency of the entire railway system. The subsystem interactions, e.g., wheel–rail contact, vehicle–track–substructure dynamic interaction, track–bridge interaction, pantograph–catenary contact, and track–signaling system interface, include a wide variety of complex static and dynamic problems, and many challenges have arisen and meaningful developments have been made in recent decades. However, there are still several remaining important issues. Thus, I would like to propose this Special Issue including but not limited to the abovementioned themes. New unknown problems in recent or future railway systems are also welcomed.

Guest Editor

Prof. Dr. Seung-Yup Jang

Department of Transportation System Engineering, Graduate School of Transportation, Korea National University of Transportation, 157, Cheoldo-bangmulgwan-ro, Uiwang 16106, Gyeonggi-do, Republic of Korea

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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