



an Open Access Journal by MDPI

Current Collection Quality Solutions in Electric Trains

Guest Editors:

Dr. Yang Song

Department of Structural Engineering, Norwegian University of Science and Technology, 7491 Trondheim, Norway

Dr. Tengjiao Jiang

Department of Structural Engineering, Norwegian University of Science and Technology, Richard Birkelands vei 1A, 7491 Trondheim, Norway

Dr. Yongming Yao

Infrastructure Inspection Research Institute, China Academy of Railway Sciences, Daliushu Road No.2, Beijing 100081, China

Deadline for manuscript submissions:

closed (31 January 2024)

Message from the Guest Editors

Dear Colleagues,

With the expansion of rail transit around the world, the study of the current collection quality of electric trains has attracted ever-increasing attention from both the academic and industrial communities. Indeed, it is essential that we enable the faster and more reliable operation of electric trains, contribute to minimising incidents that cause traffic disruptions and reduce the maintenance costs of the rolling stock and infrastructure. In this context, we are pleased to announce this Special, entitled “Current Collection Quality Solution in Electric Trains”. Possible topics include, but are not limited to, the following:

- pantograph–catenary interaction;
- vehicle–grid system;
- current collection quality;
- maintenance of current collection system;
- design and optimisation of the current collection system;
- third shoe rail system;
- contactless power supply in rail transit.

Dr. Yang Song
Dr. Tengjiao Jiang
Dr. Yongming Yao
Guest Editors



mdpi.com/si/159874

Special Issue