



Sustainability and Digital Transformations in Railway Systems: Modelling, Planning, and Management

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Message from the Guest Editors

Rail has already demonstrated that it can satisfy massive transport demands as the cleanest and most sustainable transport mode. The first two decades of the 21st century have witnessed a substantial expansion of rail transport across the world. In the foreseeable future, rail will become the backbone of sustainable mobility in our society. However, the rail sector is still facing major challenges in fulfilling such a critical role. We must accelerate research and innovation in the rail sector to meet the ever-growing mobility demand, to become more flexible and attractive to passengers and goods, to interrelate with other transport modes for multimodal mobility, and to offer greener solutions in planning, management, and operation. This transformation should rely on emerging concepts and technologies including artificial intelligence, digital twins, automated/autonomous trains, renewable energies, and more. In this context, we are pleased to announce this Special Issue with the general theme of “Sustainability and Digital Transformations in Railway Systems: Modelling, Planning, and Management”





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