

1. Record Nr.	UNINA9910553070903321
Titolo	International Scientific Siberian Transport Forum TransSiberia - 2021 : Volume 1 // edited by Aleksey Manakov, Arkadii Edigarian
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-96380-2
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (1646 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 402
Disciplina	388 385
Soggetti	Transportation engineering Traffic engineering Electric power production Transportation Technology and Traffic Engineering Electrical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	The book presents latest developments in the field of high-speed railway, Hyperloop transportation technologies and Maglev system. In recent years, railway transport has received a powerful impetus in its development. With the advent of the 4th Industrial revolution, the transport sector is moving towards full digitalization. TransSiberia is a platform where both the rail industry and the communications industry can meet and converge. The book contains papers prepared by experts from both sectors. This is primarily research in the field of the ICT technologies, which will be used for the future railway system. The results of studies on the design of intelligent autonomous transport systems and the operation of high-speed railways in the harsh weather conditions of Siberia are presented in detail. The book presents the state of the art in smart grid technology for railway power systems. This will contribute to decarbonization of the railway. The presented technical innovations in railway science and engineering will help scientists and engineers create a new generation of trains running on

alternative fuels and capable of functioning without interruptions in any climatic conditions.

---