

1. Record Nr.	UNINA9910800112803321
Autore	Macioszek Elbieta
Titolo	Road Traffic Analysis, Theoretical Approaches and Practical Solutions / / edited by Elbieta Macioszek, Irena Jurdana, Grzegorz Sierpiski
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-51449-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (135 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 877
Altri autori (Persone)	JurdanaIrena SierpiskiGrzegorz
Disciplina	006.3
Soggetti	Computational intelligence Transportation engineering Traffic engineering Computational Intelligence Transportation Technology and Traffic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Development of a camera-based parking monitoring system with an automatic parking spot identification -- Energy-efficient radio platforms for implementation of nodes of sensor networks -- A heuristic approach to assess the performance efficiency of road intersections in urban environments from the resilience perspective -- The ecological footprint of embedded rail structures -- Vectors of development of mountain tricycles.
Sommario/riassunto	This book presents many valuable tips for making decisions related to road traffic in transport networks. The knowledge base in practical examples, as well as the decision support systems described in this volume, finds interest among people who face the daily challenge of searching for advanced solutions and practical applications in road traffic engineering. The publication is therefore addressed to local authorities related to the planning and development of development strategies for selected areas with regard to transport (both in the urban and regional dimension) and to representatives of business and industry, as people directly involved in the implementation of traffic engineering solutions. The tips contained in individual sections of the

publication allow to look at a given problem in an advanced way and facilitate the selection of the appropriate strategy (among others, in relation to the heuristic approach to assessing the performance efficiency of road intersections in urban environments from the resilience perspective, modeling the distribution of transport pollutants in a naturally ventilated road tunnel, development of a camera-based parking monitoring system with an automatic parking spot identification). In turn, due to a new approach to theoretical models (including, inter alia, problems with the safety of passengers at tram stops or energy-efficient radio platforms for the implementation of nodes of sensor networks), the publication also interests scientists and researchers carrying out research in this area. The publication entitled "Road Traffic Analysis, Theoretical Approaches and Practical Solutions" contains selected papers submitted to and presented at the 19th "Transport Systems. Theory and Practice" Scientific and Technical Conference organized by the Department of Transport Systems, Traffic Engineering and Logistics at the Faculty of Transport and Aviation Engineering at the Silesian University of Technology. The conference took place on September 18–19, 2023, in Katowice (Poland).

---