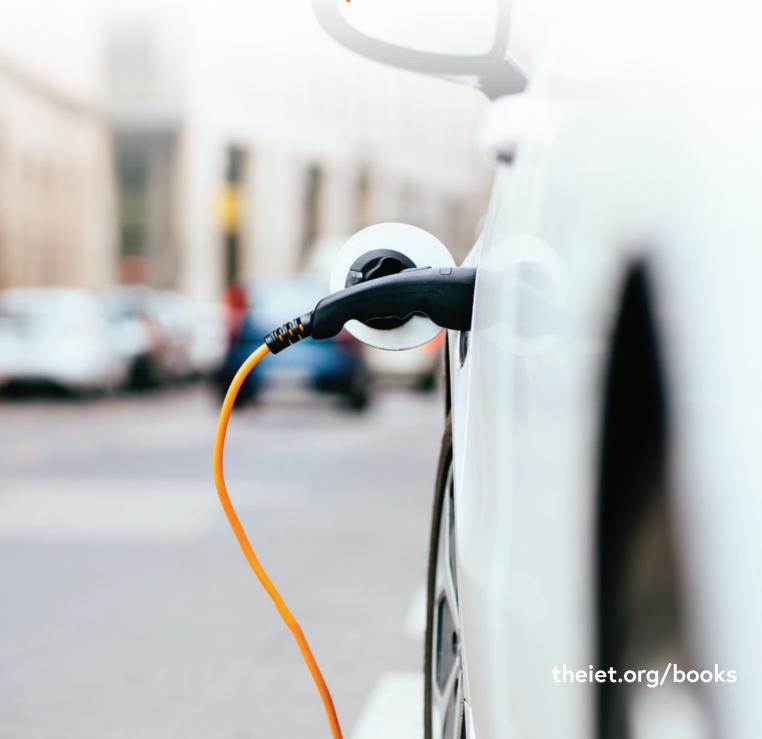




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Transportation



Transportation - Highlights

Autonomous Decentralized Systems and their Applications in Transport and Infrastructure

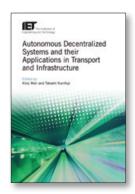
Editors: Kinji Mori & Takashi Kunifuji, Waseda University, Japan & East Japan Railway Company, Japan

This work describes the concept, architecture and technologies of Autonomous Decentralized

Systems (ADS) and their applications in transport and other systems, particularly intelligent railway transport. ADS is explained first using the example of the Japanese railway transport system; applications in other countries follow. The goal is to describe the technologies, applications and businesses on the basis of a consistent concept for achieving intelligent transport. Other ADS based technologies, such as for air traffic and robotic transport are also covered.

2018 / 360pp / £120 / \$155

Print PBTR0090 / 978-1-78561-281-7 eBook PBTR009E / 978-1-78561-282-4



Cooperative Intelligent **Transport Systems:** Towards high-level automated driving

Editor: Meng Lu, Dynnig, The Netherlands

Intelligent Transport Systems, particularly for automated driving, have been developed to maturity and are available for deployment.



2019 / 400pp / £125 / \$160 Print PBTR0250 / 978-183953-012-8 eBook PBTR025E / 978-183953-013-5

EMC and Functional Safety of Automotive **Electronics**

Author: Kai Borgeest, Aschaffenburg University of Applied Sciences, Germany

This systematic treatment of electromagnetic compatibility (EMC) for the automotive sector introduces automotive experts to EMC and EMC experts to automotive electronics. The book



enables readers to avoid expensive EMC problems, to test for EMC compliance of cars and their components, and to fix existing EMC issues. It also deals with the legal frameworks around the topic. In addition, the book explicitly covers electric vehicle technology and infrastructure. Ideal for researchers, advanced students and engineers in automotive electronics.

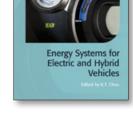
2018 / 264pp / £110 / \$145 Print PBTR0120 / 978-1-78561-408-8 eBook PBTR012E / 978-1-78561-409-5



Energy Systems for Electric and Hybrid Vehicles

Editor: K. T. Chau, The University of Hong Kong

Electric and hybrid vehicles have been globally identified to be the most environmentally friendly road transportation. This book provides comprehensive coverage of energy systems for electric and hybrid vehicles with a focus



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Cooperative Intelligent Transport Systems

on the three main energy system technologies - energy sources, battery charging and vehicle-to-grid systems.

2016 / 520pp / £110 / \$175 Print PBTR0020 / 978-1-78561-008-0 eBook PBTR002E / 978-1-78561-009-7

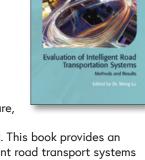
Transportation - Highlights



Evaluation of Intelligent Road Transport Systems: Methods and results

Editor: Meng Lu, Dynniq, The Netherlands

Intelligent Transport Systems (ITS) use information and communications technologies (ICT) to deliver transport improvements instead of extending physical infrastructure, thereby saving money and



reducing environmental impact. This book provides an overview of ICT-based intelligent road transport systems with an emphasis on evaluation methods and recent evaluation results of ITS development and deployment.

2016 / 456pp / £105 / \$170

Print PBTR0070 / 978-1-78561-172-8 eBook PBTR007E / 978-1-78561-173-5

Low Carbon Mobility for Future Cities: Principles and applications

Editor: Hussein Dia, Swinburne University of Technology, Australia

Taking the global view of the interactions between land use and transport this book brings together leading experts in the areas of urban planning, transport planning and strategy,



traffic management and transport technology to present a cohesive work on the policy principles and practical applications to drive urban mobility services in tomorrow's smart cities. Containing practical policy instruments and proven use cases, this book combines academic rigor with practical tools to benefit practitioners and city leaders.

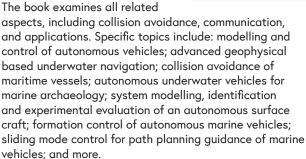
2017 / 376pp / £105 / \$170

Print PBTR0060 / 978-1-78561-197-1 eBook PBTR006E / 978-1-78561-198-8

Navigation and Control of Autonomous Marine Vehicles

Editors: Sanjay Sharma & Bidyadhar Subudhi, Plymouth University UK & National Institute of Technology Rourkela, India

Covers the current state of research on the navigation, modelling and control of marine autonomous vehicles.



2019 / 352pp / £120 / \$155 Print PBTR0110 / 978-1-78561-338-8 eBook PBTR011E / 978-1-78561-339-5



Sliding Mode Control of Vehicle Dynamics

Editor: Antonella Ferrara, University of Pavia, Italy

This book is a comprehensive work on vehicle dynamics control through sliding mode control. This edited volume covers the control of longitudinal, lateral and vertical dynamics of four-wheeled vehicles, both of the conventional (i.e. combustion



driven) type as well as fully-electric. In addition, one chapter is devoted to motorcycles, and one to the roll-over control in heavy vehicles. The topic is important not only for general safety of vehicular traffic, but also for future automated driving. This book is a must-read for both researchers and industry engineers in this field.

2017 / 312pp / £100 / \$160

Print PBTR0050 / 978-1-78561-209-1 eBook PBTR005E / 978-1-78561-210-7



to be published in 2020 and 2021

Title	Author(s)/Editor(s)	Price (£)	Price (\$)	ISBN	elSBN	Product code
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Autonomous Decentralized Systems and their Applications in Transport and Infrastructure	Mori & Kunifuji (Eds)	£120.00	\$155.00	978-1-78561-281-7	978-1-78561-282-4	PBTRO09
Cooperative Intelligent Transport Systems: Towards high-level automated driving	Lu (Ed)	£125.00	\$160.00	978-183953-012-8	978-183953-013-5	PBTR025
EMC and Functional Safety of Automotive Electronics	Borgeest	£110.00	\$145.00	978-1-78561-408-8	978-1-78561-409-5	PBTRO12
Energy Systems for Electric and Hybrid Vehicles	Chau (Ed)	£110	\$175.00	978-1-78561-008-0	978-1-78561-009-7	PBTRO02
Evaluation of Intelligent Road Transport Systems: Methods and results	Lu (Ed)	£105.00	\$170.00	978-1-78561-172-8	978-1-78561-173-5	PBTR007
Low Carbon Mobility for Future Cities: Principles and applications	Dia (Ed)	£105.00	\$170.00	978-1-78561-197-1	978-1-78561-198-8	PBTR006
Navigation and Control of Autonomous Marine Vehicles	Sharma & Subudhi (Eds)	£120.00	\$155.00	978-1-78561-338-8	978-1-78561-339-5	PBTRO11
Road Pricing: Technologies, economics and acceptability	Walker (Ed)	£130.00	\$210.00	978-1-78561-205-3	978-1-78561-206-0	PBTRO08
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