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Data Science and Simulation in Transportation Research



Part of the Advances in Data Mining and Database Management Book Series

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Ansar-UI-Haque Yasar (Hasselt University, Belgium), and
Luk Knapen (Hasselt University, Belgium)

Given its effective techniques and theories from various sources and fields, data science is playing a vital role in transportation research and the consequences of the inevitable switch to electronic vehicles. This fundamental insight provides a step towards the solution of this important challenge.

Data Science and Simulation in Transportation Research highlights entirely new and detailed spatial-temporal micro-simulation methodologies for human mobility and the emerging dynamics of our society bringing together novel ideas grounded in big data from various data mining and transportation science sources. This book is an essential tool for professionals, students, and researchers in the fields of transportation research and data mining.

Topics Covered:

- Information Extraction
- Agent-Based Techniques
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- Complex Systems
- Modeling and Simulation
- Smart Grid
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Davy Janssens graduated in 2005 as Commercial Engineer in Management Informatics at Leuven University. After his graduation, he worked as PhD candidate and teaching assistant at Hasselt University within the faculty of Applied Business Sciences. In 2009 he got his PhD at Hasselt University, where he is now working as a professor. He is teaching different courses in the domain of transportation systems. At the level of projects, he is a member of the Transportation Research Institute (TMOB) at Hasselt University, where he is programme leader in the domain of smart/inter-urban research. His area of interest is also covered within the syllabus domains of advanced quantitative modelling (e.g. data mining), such as Bayesian networks and research about Reinforcement Learning and in extra-based transportation modelling.



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