



Vehicular Networks: Models and Algorithms

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Over the last few years vehicular networks have been receiving a lot of attention from academia, industry, standardization bodies, and the various transportation agencies and departments of many governments around the world. It is envisaged in the next decade that the Intelligent Transportation System (ITS) will become an essential part of our daily life. This book describes models and/or algorithms designed to investigate evolutionary solutions to overcome important issues such as congestion control, routing, clustering, interconnection with long-term evolution (LTE) and LTE advanced cellular networks, traffic signal control and analysis of performances through simulation tools and the generation of vehicular mobility traces for network simulations.

It provides an up-to-date progress report on the most significant contributions carried out by the specialized research community in the various fields concerned, in terms of models and algorithms. The proposals and new directions explored by the authors are highly original, and a rather descriptive method has been chosen, which aims at drawing up complete states of the art as well as providing an overall presentation of the personal contributions brought by the authors and clearly illustrating the advantages and limitations as well as issues for future work.

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