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Title: Visual Analysis of the Bibliometric Data Associated with the Calibration of Car-Following Models

Author(s): Pop, MD (Pop, Madalin-Dorin); Micea, M (Micea, Mihai, V)

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Abstract: Intelligent transportation systems (ITS) use the latest technologies for real-time traffic control and monitoring to ensure efficient traffic management and reduce the risks of traffic accidents. The microscopic level of traffic modeling is the most appropriate level for controlling and monitoring the interaction between vehicles based on car-following scenarios. However, the data retrieved from sensor networks can be affected by measurement errors, and consequently the implementation of appropriate mechanisms to overcome their propagation to the control system is mandatory. This paper aims to analyse the current research in the calibration of car-following models and provide valuable insights of recent developments in this field. To achieve this goal, VOSviewer has been chosen as a visualisation tool to create bibliographic maps based on the output from the well-known scientific database Clarivate Analytics Web of Science (WoS). The maps obtained provide a visual representation of the main institutions involved in this field of research and identify the research interests based on author and indexing keywords. Furthermore, this paper analyses the top five clusters identified based on the analysis of co-occurrence keywords, presenting discussions about the connections existing within these clusters.

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Addresses: [Pop, Madalin-Dorin; Micea, Mihai, V] Politehn Univ Timisoara, Comp & Informat Technol Dept, Timisoara, Romania.

Corresponding Address: Pop, MD (corresponding author), Politehn Univ Timisoara, Comp & Informat Technol Dept, Timisoara, Romania.

E-mail Addresses: madalin.pop@upt.ro

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