SPECIAL SECTION/ISSUE

Title
Big Data and Artificial Intelligence for Cooperative Vehicle-Infrastructure Systems

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About
The emerging technologies, such as big data, artificial intelligence (AI), the Internet of things and high-performance computing technologies, are flourishing in various transportation research fields. These advanced technologies have great potential to promote further development of cooperative vehicle-infrastructure systems (CVISs). Accordingly, it is more important and promising to explore the application of these technologies in transportation systems analysis, modeling and understanding. As a technological innovation direction of intelligent transportation systems, CVISs strive to incorporate advanced sensors, edge computing technology and communication technology into vehicles and road infrastructures. The big data generated have been applied to almost all aspects of CVISs, which can provide new perspectives and insights for researchers. Therefore, big data and AI have attracted a remarkable amount of research interest, including big data driven, AI based analysis in transportation system, and so on. The purpose of this special publication is to provide a forum for researchers from a wide range of big data and AI related branches of CVISs. We are soliciting high-quality papers with new conceptual and analytical perspectives.

Scope
Articles covering theoretical and practical applications related (but not limited) to the following topics are invited:

- vehicle-infrastructure cooperative management and control
- integrated applications of artificial intelligence technology and vehicle-infrastructure cooperative technology
- vehicle-infrastructure collaborative control and service effectiveness test evaluation
- human factors in CVISs
- big data and AI applications in energy saving and emission reduction
- mobile charging technologies for electric vehicles
- environmental implications of emerging transportation technologies and fixed/mobile infrastructures
- short-and long-term effects on mode choice, private car/CAV/SAV use.

Important dates
Submission deadline: **1 February 2022**
Notification of acceptance: **1 June 2022**
Possible publication: **September 2022**

Information for authors

- The papers should meet high quality journal manuscript guidelines, in terms of research results, editorial quality, and language. Poorly written manuscripts will not be considered for review.
- The submission must be done online at `www.amcs.uz.zgora.pl/?action=submission`. **Important!** In your submission (paper file), please put as the first keyword capitalized *AI TRANSPORT*.
- The papers should be prepared with the journal LaTeX template, following strictly the guide for authors available at `www.amcs.uz.zgora.pl/?action=guide`.
- The submissions will undergo a review process, following the journal rules.
- The final decision will be made by the journal's Editor-in-Chief and Guest Editors.
- Please note that publication in *AMCS* is subject to page charges, invoiced upon paper acceptance. For details, please visit `www.amcs.uz.zgora.pl/?action=guide`.

Technical assistance

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