Special Issue

Application of Artificial Intelligence in Traffic Management

Message from the Guest Editors

This Special Issue aims to explore (i) the development and application of advanced AI technology in optimizing and controlling road and waterway transportation, (ii) the integration of AI with intelligent transportation systems (ITSs) to improve decision making and real-time traffic operations, and (iii) AI's potential in promoting sustainable, intelligent, and resilient urban transportation systems, as well as ocean-going transportation systems. This Special Issue will complement the existing literature by providing a comprehensive, cross-sectoral perspective on AI applications in waterway and road traffic management. The topics of interest include, but are not limited to, the following:

- AI-driven traffic forecasting and congestion management;
- AI-based systems for sustainable transportation planning;
- AI in traffic safety analysis and accident prevention;
- AI in ocean-going vessels' decision making;
- AI in maritime management;
- Big data analytics for shipping and traffic monitoring.

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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