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5th International Conference on

Problems of Logistics, Management and Operation in the East-West Transport Corridor

Book of Abstracts

May 18-21, 2026
Baku, Azerbaijan

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This book includes abstracts of papers presented at the 5th International Conference on Problems of Logistics, Management and Operation in the East-West Transport Corridor (PLMO 2026) held in Baku, Azerbaijan, May 18-21, 2026.

Website: plmo.cyber.az/2026/

ISBN: 978-9952-530-37-7

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reduction of nitrogen oxides proceed actively without a heterogeneous catalyst containing precious metals. The results of bench tests on the neutralization of nitrogen oxides in exhaust gases using atomic hydrogen were analyzed, on the basis of which it was established that the described method for neutralizing nitrogen oxides is viable, and that continued research in this area is promising.

Keywords: Internal Combustion Engine, Nitrogen Oxides, atomic hydrogen.

Tatiana Dudnik, Aleksander Sładkowski

The Growth of Economic Integration Driven by the Development of the Middle Corridor

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Abstract: In conditions of growing political instability worldwide and the declin-ing reliability of traditional logistics routes, the role of the Middle Corridor, which connects China and Europe, has increased significantly. However, despite its growing importance, this relatively new logistics route remains insufficiently studied. This article aims to address this research gap by analyzing the development of the infrastructure of the Middle Eurasian Corridor, with a particular focus on rail and maritime transport, and by assessing the impact of this development on economic integration among the core countries of the route, namely Azerbaijan, Georgia, and Kazakhstan. The relationship between the growth of freight transportation along the Middle Corridor and the

increase in bilateral trade be-tween Kazakhstan and Azerbaijan, Kazakhstan and Georgia, and Azerbaijan and Georgia was examined using second-degree polynomial regression. The results indicate a significant acceleration in the development of the Middle Corridor's infrastructure in recent years. The largest number of infrastructure developments was recorded in 2025, when new seaport terminals were opened, container hubs were established, railway sections were modernized, and dry ports were con-structed. Alongside the overall growth of freight traffic along the route, economic integration among the three selected countries strengthened, with a notable correlation identified between these processes.
Keywords: Middle Corridor, Trans-Caspian International Transport Route, BRI, TRACECA.

Teymur Mammadli, Shahnaz Shahbazova

Analysis of Text Data Processing Algorithm and Methods Based on Machine Learning

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Abstract: The rapid growth of digital information has led to an increase in textual data, creating the necessity for efficient methods to process and analyze unstructured information. This paper presents a comprehensive analysis of text data processing algorithms and methods based on machine learning. It begins by examining traditional approaches, including Bag of Words and TF-IDF representations, as well as classical machine learning