

Management of urban freight transport system: state and prospects

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Safety, efficiency and controllability of the regional and municipal transport systems are main key points of developing the motor transport systems. An urgent task is to raise the efficiency of functioning and managing the urban freight transport system, which is the objective of this study. The previously developed methodology has been improved based on the principles of coordination, a system approach, the scheduling theory techniques that allow creating freight operational plans requiring fewer trucks implementation in a plurality of consignors and consignees. In conclusion, the expediency of improving the management structure of the urban freight transport system was substantiated by creating a unified municipal dispatch service. The results of experimental studies on applying improved techniques indicate enhancing physical indicators (total kilometrage, exploitation vehicle-hours) of trucks operation up to 30%, lowering operating costs up to 20% compared to the previously proposed solutions.