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Decision Support System to Assist Design and Evaluation of City Logistics Applications with Real-Time Traffic Information.

ABSTRACT

The design and evaluation of City Logistics applications requires an integrated framework in which all components could work together. Therefore City Logistics models should account for vehicle routing applications and fleet management models able of including also the dynamic aspects of the underlying road network, namely when ICT applications are taken into account. This paper develops a methodological proposal based on an integration of vehicle routing models and real-time traffic information. In the computational experiments conducted in the paper a dynamic traffic simulation model has been used to emulate the actual traffic conditions providing at each time interval the estimates of the traffic state on each link of the road network, the information that will be used by a real time fleet management system to determine the optimal dynamic routing and scheduling of the vehicle.