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On a network equilibrium problem with mixed demand

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Abstract

© Springer International Publishing Switzerland 2016. In the present paper, we formulate the network equilibrium problem with mixed demand containing the fixed and variable components. We present the equilibrium conditions and the conditions for existence of solution of this problem. In addition, we show that the network equilibrium problem with mixed demand generalizes the network equilibrium problems with fixed demand and elastic demand and establish the connection with the auction equilibrium problem. Preliminary computational experiments are also presented.

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Keywords

Elastic demand, Fixed demand, Mixed demand, Network equilibrium problem