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Taxi trips distribution modeling based on Entropy-Maximizing theory: A case study in Harbin city—China

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Highlights:

1. This study proposes Entropy-Maximizing theory to model OD distribution.
2. K-means clustering method is utilized to finish zones partition.
3. A generalized cost function is defined by considering travel distance, time and fee.
4. Three indicators are applied to evaluate performance of proposed model.
5. The results demonstrate Entropy-Maximizing model is superior to traditional Gravity model.

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