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A new lattice model of traffic flow considering driver's anticipation effect of the traffic interruption probability

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## Research Highlights

1. A new lattice model is proposed with the driver's anticipation effect of traffic interruption probability.
2. Linear stability analysis is applied to obtain the stable condition resulted from new consideration.
3. The mKdV equation is derived from nonlinear analysis.
4. The positive role is verified via simulation for the driver anticipation effect of traffic interruption probability.

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