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Analyses of lattice hydrodynamic model using delayed feedback control with passing

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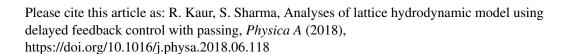
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Research Highlights:

- 1. A lattice model using control theory is proposed by considering the effect of passing.
- 2. Stability analysis is conducted using control method and the effect of passing on traffic flow is examined.
- 3. The efficiency of control parameter in controlling traffic jams is shown through Bode plot.
- 4. Jamming transitions are analyzed through MKdV equation.
- 5. Theoretical results are validated through simulation.

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