Accepted Manuscript

A cellular automata traffic flow model for three-phase theory

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PII: S0378-4371(17)30169-3
DOI: http://dx.doi.org/10.1016/j.physa.2017.02.057
Reference: PHYSA 18037

To appear in: *Physica A*

Received date: 29 August 2016
Revised date: 2 February 2017

Please cite this article as: X. Feng, Y.-S. Qian, J.-W. Zeng, A cellular automata traffic flow model for three-phase theory, *Physica A* (2017), http://dx.doi.org/10.1016/j.physa.2017.02.057

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Highlights

A CA model based on the three-phase theory is proposed in this paper.
The differences of driving behaviors and the time delay are considered in this paper.
The speed disturbance can lead to the deceleration wave.
The features of speed disturbance in diverse traffic flow phase are different.

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