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Best response game of traffic on road network of non-signalized intersections

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Highlights

1. A cellular automata model of non-signalized intersections is proposed.
2. Best response is used as strategy update rule.
3. Cooperation rate shows staircase shape and is explained by analytical methods.
4. Defection behavior deteriorates the efficiency of traffic on non-signalized intersections.
5. The traffic system experiences more randomness when the density is low.

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