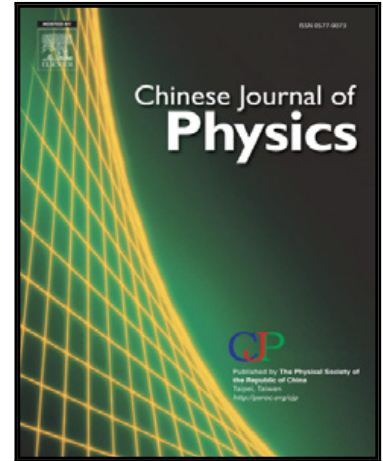


## Accepted Manuscript

A Cellular Automata Model for Urban Traffic with Multiple Roundabouts

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**Highlights**

- Urban traffic with multiple roundabouts is modeled using a 2d CA model.
- Offside priority rules on the entry leg of a roundabout are introduced.
- We study the impact of turning movement and some geometric factor on urban traffic.
- Three traffic states are found: free flow, congested and gridlock.

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