### **Accepted Manuscript**

Routing design and fleet allocation optimization of freeway service patrol: Improved results using genetic algorithm

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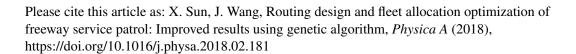
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## Highlights

- A mixed-integer nonlinear full covering model for FSP is proposed.
- Diversity of GA populations is maintained.
- The genetic algorithm performs better than other algorithms.

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