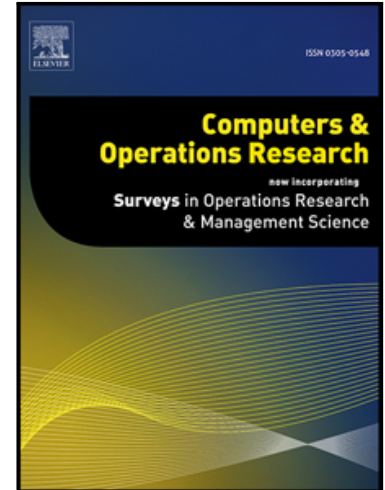


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Alleviating Road Network Congestion: Traffic Pattern Optimization Using Markov Chain Traffic Assignment

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Highlights

- A model based on Markov chain traffic assignment to minimize congestion is presented.
- The model relates a Markov chain with inaccessible states to its reduced network.
- A solution is found via a Genetic Algorithm and improved via a fine-tuning algorithm.
- Reducing congestion in a few optimization minutes allows its use in crisis planning.

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