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Dynamic repositioning strategy in a bike-sharing system; how to prioritize and how to rebalance a bike station

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#### ACCEPTED MANUSCRIPT

## Highlights

- We characterize the optimal action at a bike station for the operator.
- We compute the relative value function of the system for one station.
- We develop a decision-support tool for the dynamic redistribution strategy.
- $\bullet$  We evaluate our new policy in comparison with other classical policies

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