

## Accepted Manuscript

On Linear Programming Relaxations for Solving Polynomial Programming Problems

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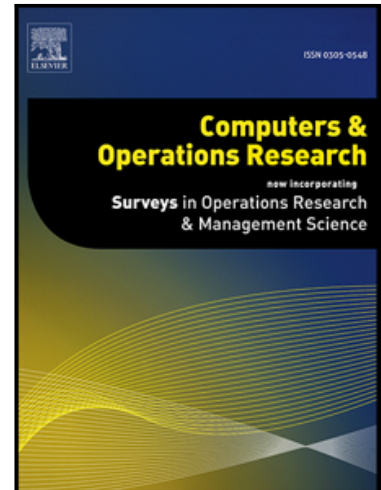
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**Highlights**

- Theoretically compared the tightness of the  $J$ -set relaxation with the recursive McCormick relaxations
- Analyzed the computational tractability of the  $J$ -set and the recursive McCormick relaxations
- Neither formulation has uniform superiority when implemented within a branch-and-bound framework.
- We suggest  $J$ -set relaxation for degree  $\leq 6$  and enhanced McCormick relaxations for degree  $\geq 7$

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