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Mutually beneficial relationship in optimization between search-space smoothing and stochastic search

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Highlights:

- We analyze the mutual effect between landscape smoothing and stochastic search.
- Two types of random traveling salesman problems are selected as test-beds.
- Interbasin dynamics are observed in both the smoothed and unsmoothed terrains.
- The Metropolis algorithm takes more advantage of smoothing heuristics.
- Smoothing heuristics improve the Metropolis algorithm in an adaptive manner.

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