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Author: Xiang Wu Bangjun Lei Kanjian Zhang Ming Cheng



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• We consider the chemical process optimal control problem.

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- In order to escape from the local extremum, we develop a novel stochastic search method.
- In order to improve the exploitation, we propose a hybrid stochastic optimization approach.
- Convergence results indicate that the hybrid stochastic optimization approach is global convergent.
- Four chemical process optimal control problems are given to illustrate the effectiveness of the algorithm proposed by us.

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