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Title: Hybrid stochastic optimization method for optimal control problems of chemical processes

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- We consider the chemical process optimal control problem.
- 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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