Dear Editor,

On behalf of my coauthors, I am pleased to submit the manuscript titled, "**A finite-step convergent method for unconstrained optimization**" by Yunqing Huang, and Kai Jiang, for publication in **CSIAM Transactions on Applied Mathematics**.

In this work, we give a rigorous analysis to guarantee the finite-step convergence of a new optimization method, the hill-climbing method with a stick (HiCS). An economic sampling strategy based on the simplex is developed to treat high-dimensional optimization. Finally, the efficiency of the improved HiCS method is demonstrated by several benchmark high-dimensional examples.

We certify that the submission is original work and is not under consideration by another journal. All authors have approved the manuscript and agree with its submission.

Knowledgeable referees for this manuscript might includes:

- Dr. Zaikun Zhang, The HongKong Polytechnic University, zaikun.zhang@polyu.edu.hk
- Prof. Xin Liu, Chinese Academy of Sciences, liuxin@lsec.cc.ac.cn

Thank you for your time and consideration. Please address all correspondence concerning this manuscript to me at Xiangtan University by E-mail: huangyq@xtu.edu.cn.

We look forward to hearing from you at your earliest convenience.

Sincerely yours,

Yunqing Huang