

一致L-Lipschitz的渐近拟伪压缩型映象迭代收敛的充要条件

向长合

重庆师范大学数学与计算机科学学院, 重庆 400047

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摘要 设 E 是任意的实Banach空间, C 是 E 的非空凸子集(C 可以是 E 的无界子集), $T: C \rightarrow C$ 是一致 L -Lipschitz的渐近拟伪压缩型映象, 在对参数的一些限制条件下, 该文给出了带误差的修改的Ishikawa迭代序列强收敛于 T 的不动点的充要条件.

关键词 [渐近拟伪压缩型映象](#), [带误差的修改的Ishikawa迭代序列](#), [不动点](#).

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A Necessary and Sufficient Condition for the Iterative Sequence Convergence to the Fixed Point of Uniformly L-Lipschitz Asymptotically Quasi Pseudo-Contractive Type Mapping

XIANG Changhe

College of Mathematics and Computer Science, Chongqing Normal University, Chongqing 400047

Abstract Suppose E is a real Banach space, C is a nonempty convex subset of E (C may be a unbounded subset of E), $T: C \rightarrow C$ is a uniformly L -Lipschitzian asymptotically quasi pseudo-contractive type mapping, under some restrictive conditions on the parameters, a necessary and sufficient condition is given for the modified Ishikawa iterative sequence with error to converge strongly to a fixed point of T .

Key words [Asymptotically quasi pseudo-contractive type mapping](#), [modified Ishikawa iterative sequence with error](#), [fixed points](#).

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