

S. Reich and A.J. Zaslavski, Convergence to approximate solutions and perturbation resilience of iterative algorithms, *Inverse Problems*, Vol. 33 (2017), 044005. <https://doi.org/10.1088/1361-6420/33/4/044005>.

#### Abstract

We first consider nonexpansive self-mappings of a metric space and study the asymptotic behavior of their inexact orbits. We then apply our results to the analysis of iterative methods for finding approximate fixed points of nonexpansive mappings and approximate zeros of monotone operators.