

[Berinde, Vasile](#)

Approximating common fixed points of noncommuting almost contractions in metric spaces.

(English) [Zbl 1218.54031](#)

[Fixed Point Theory](#) 11, No. 2, 179-188 (2010).

Summary: We prove the existence of coincidence points and common fixed points of noncommuting almost contractions in metric spaces. Moreover, a method for approximating the coincidence points or the common fixed points is also constructed, for which both a priori and a posteriori error estimates are obtained. These results generalize, extend and unify several classical and very recent related results in literature.

MSC:

[54H25](#) Fixed-point and coincidence theorems (topological aspects)

Cited in **22** Documents

Keywords:

[metric space](#); [weakly compatible mapping](#); [almost contraction](#); [coincidence point](#); [common fixed point](#); [iterative method](#); [convergence theorem](#); [error estimate](#); [rate of convergence](#)

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