

# Strong convergence of an iterative method for approximating zeros of accretive operators and fixed points of nonexpansive mappings

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**Abstract.** We introduce an iterative process by an inexact proximal point method that converges strongly to a common zero of an  $m$ -accretive operator and a fixed point of a multivalued nonexpansive mapping in a Banach space. We present also some applications and numerical experiments of our results.

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