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A new iterative algorithm for common solutions of a finite family of accretive operators.
(English) [Zbl 1218.47101]

Summary: The purpose in this paper is to prove strong convergence to a common solution for a finite family of accretive operators in a strictly convex Banach space by means of a new iterative algorithm, thus generalizing and extending the results of [T.-H. Kim and H.-K. Xu, Nonlinear Anal., Theory Methods Appl. 61, No. 1–2, A, 51–60 (2005; Zbl 1091.47055)] and [H. Zegeye and N. Shahzad, ibid. 66, No. 5, A, 1161–1169 (2007; Zbl 1120.47061)]. Furthermore, strong convergence to a common fixed point is discussed for a finite family of pseudocontractive mappings under certain conditions.

MSC:
47J25 Iterative procedures involving nonlinear operators
47H06 Nonlinear accretive operators, dissipative operators, etc.
47H09 Contraction-type mappings, nonexpansive mappings, A-proper mappings, etc.

Keywords:
accretive operator; resolvent; pseudocontractive mappings; uniformly Gâteaux differentiable norm; common zeros; strong convergence

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References:


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