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Strong convergence theorems for a common zero of a countably infinite family of α -inverse strongly accretive mappings

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Abstract

Let E be a real reflexive Banach space which has a uniformly Gâteaux differentiable norm. Assume that every nonempty closed convex and bounded subset of E has the fixed point property for nonexpansive mappings. Strong convergence theorems for approximation of a common zero of a countably infinite family of α -inverse strongly accretive mappings are proved. Related results deal with strong convergence of theorems to a common fixed point of a countably infinite family of strictly pseudocontractive mappings. © 2008 Elsevier Ltd. All rights reserved.

Author Keywords

α -inverse strongly accretive mappings; Nonexpansive mappings; Normalized duality mappings; Strictly convex spaces; Strictly pseudocontractive mappings; Uniformly Gâteaux differentiable norm

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