

Article

Approximating Fixed Points of Nonexpansive Type Mappings via General Picard–Mann Algorithm

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Abstract: The aim of this paper is to approximate fixed points of nonexpansive type mappings in Banach spaces when the set of fixed points is nonempty. We study the general Picard–Mann (GPM) algorithm, obtaining the weak and strong convergence theorems. We provide an example to illustrate the convergence behaviour of the GPM algorithm. We compare the GPM algorithm with other existing (well known) algorithms numerically (under different parameters and initial guesses).

Keywords: condition (E); iterative method; Opial property

1. Introduction and Preliminaries

Let $(\mathcal{Z}, \|\cdot\|)$ be a Banach space. The mapping $\Phi : \mathcal{Z} \rightarrow \mathcal{Z}$ is nonexpansive if

$$\|\Phi(\theta) - \Phi(v)\| \leq \|\theta - v\| \quad \forall \theta, v \in \mathcal{Z}. \quad (1)$$

A point $\theta \in \mathcal{Z}$ is a fixed point of Φ if $\Phi(\theta) = \theta$. Let $F(\Phi)$ denote the set of fixed points of Φ . Finding a fixed point of nonlinear mappings is an important problem and various algorithms have been used by many researchers. The Picard algorithm [1] is mostly used (simplest and popular) to find the fixed points of contractive mappings. However, for nonexpansive mappings, the Picard algorithm need not converge to a fixed point. Krasnosel'skiĭ [2], Schaefer [3] and Mann [4] proposed more general algorithms to find fixed points of nonexpansive mappings.

Many mathematicians extended and generalized the class of nonexpansive mappings in different directions, see [5]. In 2011, García-Falset et al. [6] considered the following class of mappings:

Definition 1 ([6]). Let \mathcal{Y} be a subset of a Banach space \mathcal{Z} such that $\mathcal{Y} \neq \emptyset$. A mapping $\Phi : \mathcal{Y} \rightarrow \mathcal{Y}$ is said to satisfy condition (E_μ) on \mathcal{Y} if there exists $\mu \geq 1$ such that

$$\|\theta - \Phi(v)\| \leq \mu \|\theta - \Phi(\theta)\| + \|\theta - v\|, \quad \forall \theta, v \in \mathcal{Y}.$$

A mapping Φ satisfies condition (E) on \mathcal{Y} whenever Φ satisfies (E_μ) for some $\mu \geq 1$.

A number of papers have been appeared in literature dealing with condition (E), see [5,7–9] and references therein. In the last two decades, a number of algorithms (from one step to four steps) were studied by mathematicians to improve the fastness of the algorithm, see [4,10–34].

Motivated by the above results, we approximate fixed points of the class of mappings satisfying condition (E). We employ general Picard–Mann (in short GPM) and obtain a number of weak and strong convergence results. We supply a numerical example and compare the GPM algorithm with various algorithms presented in Section 2.

We denote \rightarrow for strong convergence, \rightharpoonup for weak convergence, and $\omega_w(\theta_n)$ denotes a cluster points (ω -limit) set of a sequence $\{\theta_n\}$, that is, $\omega_w(\theta_n) := \{\theta : \exists \theta_{n_k} \rightarrow \theta\}$.



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Fixed Points And Nonexpansive Mappings

Puja Mehta



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