

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  $\Phi$  if  $\Phi(\theta) = \theta$ . Let  $F(\Phi)$  denote the set of fixed points of  $\Phi$ . 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, Garcia-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  $(E_\mu)$  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  $\Phi$  satisfies condition (E) on  $\mathcal{Y}$  whenever  $\Phi$  satisfies  $(E_\mu)$  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 ( $\omega$ -limit) set of a sequence  $\{\theta_n\}$ , that is,  $\omega_w(\theta_n) := \{\theta : \exists \theta_{n_k} \rightarrow \theta\}$ .



**Citation:** Shukla, R.; Panicker, R. Approximating Fixed Points of Nonexpansive Type Mappings via General Picard–Mann Algorithm. *Computation* **2022**, *10*, 151. <https://doi.org/10.3390/computation10090151>

Academic Editor: Ravi P. Agarwal

Received: 18 August 2022

Accepted: 27 August 2022

Published: 31 August 2022

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# Fixed Points And Nonexpansive Mappings

**Haiyun Zhou, Xiaolong Qin**



## Fixed Points And Nonexpansive Mappings:

**Fixed Points and Nonexpansive Mappings** Robert C. Sine,1983 *Fixed points for nonexpansive mappings in Banach spaces* P. Jeganathan,1992 *Fixed Points and Nonexpansive Mappings* ,1983 Approximate Fixed Points of Nonexpansive Mappings Aleksandr J. Zaslavskij,2024 Fixed point theory of nonlinear operators has been a rapidly growing area of research and plays an important role in the study of variational inequalities monotone operators feasibility problems and optimization theory to name just several This book discusses iteration processes associated with a given nonlinear mapping which generate its approximate fixed point and in some cases converge to a fixed point of the mapping Various classes of nonlinear single valued and set valued mappings are considered along with iteration processes under the presence of computational errors Of particular interest to mathematicians working in fixed point theory and nonlinear analysis the added value for the reader are the solutions presented to a number of difficult problems in the fixed point theory which have important applications *Fixed Points for Nonexpansive Mappings with Orbital Conditions* William Don Royalty,1969

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mappings in metric and Banach spaces The first chapter covers some basic properties of metric and Banach spaces Geometric considerations of underlying spaces play a prominent role in developing and understanding the theory The next two chapters provide background in terms of convexity smoothness and geometric coefficients of Banach spaces including duality mappings and metric projection mappings This is followed by results on existence of fixed points approximation of fixed points by iterative methods and strong convergence theorems The final chapter explores several applicable problems arising in related fields This book can be used as a textbook and as a reference for graduate students researchers and applied mathematicians working in nonlinear functional analysis operator theory approximations by iteration theory convexity and related geometric topics and best approximation theory *Fixed Points and the Sequence of Iterates* Kanhaya Lal Singh,1980 **Non-expansive Mappings and Fixed Points in Metric Spaces** Lakshmi Shankar Dube,1970 **Fixed Point Theory and Applications** Yeol Je Cho,2007-08 This volume deals with new topics in the areas of fixed point theory variational inequality and complementarity problem theory non linear ergodic theory difference differential and integral equations control and optimisation theory dynamic system theory inequality theory stochastic analysis and probability theory and their applications [Handbook of Metric Fixed Point Theory](#) W.A. Kirk,B. Sims,2013-04-17 Metric fixed point theory encompasses the branch of fixed point theory which metric conditions on the underlying space and or on the mappings play a fundamental role In some sense the theory is a far reaching outgrowth of Banach s contraction mapping principle A natural extension of the study of contractions is the limiting case when the Lipschitz constant is allowed to equal one Such mappings are called nonexpansive Nonexpansive mappings arise in a variety of natural ways for example in the study of holomorphic mappings and hyperconvex metric spaces Because most of the spaces studied in analysis share many algebraic and topological properties as well as metric properties there is no clear line separating metric fixed point theory from the topological or set theoretic branch of the theory Also because of its metric underpinnings metric fixed point theory has provided the motivation for the study of many geometric properties of Banach spaces The contents of this Handbook reflect all of these facts The purpose of the Handbook is to provide a primary resource for anyone interested in fixed point theory with a metric flavor The goal is to provide information for those wishing to find results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces The level of exposition is directed to a wide audience including students and established researchers

*On the Approximation of Fixed Points of Nonexpansive Mappings* Yaowaluk Saesor,2001 Let  $B$  be a Banach space whose norm is uniformly Gateaux differentiable and  $T$  a nonexpansive mapping on a closed convex set  $C$  of  $B$  into itself with the fixed point property Define a sequence  $X_n$  in  $C$  recursively by  $X_{n+1} = \alpha_n X_n + (1 - \alpha_n) TX_n$  for  $n = 0, 1, 2, 3$  where  $\alpha_n$  is an element of  $[0, 1]$  for each  $n$  and  $X_0 \in C$  is arbitrary In our investigation we find a sufficient condition on  $\alpha_n$  to assure that  $X_n$

converges strongly to a fixed point of  $T$       Topics in Metric Fixed Point Theory Kazimierz Goebel, W. A. Kirk, 1990 Metric Fixed Point Theory has proved a flourishing area of research for many mathematicians This book aims to offer the mathematical community an accessible self contained account which can be used as an introduction to the subject and its development It will be understandable to a wide audience including non specialists and provide a source of examples references and new approaches for those currently working in the subject      Fixed Point Theory and Graph Theory Monther Alfuraidan, Qamrul Ansari, 2016-06-20 Fixed Point Theory and Graph Theory provides an intersection between the theories of fixed point theorems that give the conditions under which maps single or multivalued have solutions and graph theory which uses mathematical structures to illustrate the relationship between ordered pairs of objects in terms of their vertices and directed edges This edited reference work is perhaps the first to provide a link between the two theories describing not only their foundational aspects but also the most recent advances and the fascinating intersection of the domains The authors provide solution methods for fixed points in different settings with two chapters devoted to the solutions method for critically important non linear problems in engineering namely variational inequalities fixed point split feasibility and hierarchical variational inequality problems The last two chapters are devoted to integrating fixed point theory in spaces with the graph and the use of retractions in the fixed point theory for ordered sets Introduces both metric fixed point and graph theory in terms of their disparate foundations and common application environments Provides a unique integration of otherwise disparate domains that aids both students seeking to understand either area and researchers interested in establishing an integrated research approach Emphasizes solution methods for fixed points in non linear problems such as variational inequalities split feasibility and hierarchical variational inequality problems that is particularly appropriate for engineering and core science applications      **Facets of the Fixed Point Theory for Nonexpansive Mappings** Timothy James Dalby, 1997

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## **Table of Contents Fixed Points And Nonexpansive Mappings**

1. Understanding the eBook Fixed Points And Nonexpansive Mappings
  - The Rise of Digital Reading Fixed Points And Nonexpansive Mappings
  - Advantages of eBooks Over Traditional Books
2. Identifying Fixed Points And Nonexpansive Mappings
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Fixed Points And Nonexpansive Mappings
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fixed Points And Nonexpansive Mappings

- Personalized Recommendations
- Fixed Points And Nonexpansive Mappings User Reviews and Ratings
- Fixed Points And Nonexpansive Mappings and Bestseller Lists
- 5. Accessing Fixed Points And Nonexpansive Mappings Free and Paid eBooks
  - Fixed Points And Nonexpansive Mappings Public Domain eBooks
  - Fixed Points And Nonexpansive Mappings eBook Subscription Services
  - Fixed Points And Nonexpansive Mappings Budget-Friendly Options
- 6. Navigating Fixed Points And Nonexpansive Mappings eBook Formats
  - ePub, PDF, MOBI, and More
  - Fixed Points And Nonexpansive Mappings Compatibility with Devices
  - Fixed Points And Nonexpansive Mappings Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fixed Points And Nonexpansive Mappings
  - Highlighting and Note-Taking Fixed Points And Nonexpansive Mappings
  - Interactive Elements Fixed Points And Nonexpansive Mappings
- 8. Staying Engaged with Fixed Points And Nonexpansive Mappings
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fixed Points And Nonexpansive Mappings
- 9. Balancing eBooks and Physical Books Fixed Points And Nonexpansive Mappings
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fixed Points And Nonexpansive Mappings
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Fixed Points And Nonexpansive Mappings
  - Setting Reading Goals Fixed Points And Nonexpansive Mappings
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fixed Points And Nonexpansive Mappings

- Fact-Checking eBook Content of Fixed Points And Nonexpansive Mappings
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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