Abstract

In this paper we prove data dependence of new multistep iterative scheme as well as CR iterative scheme for quasi contractive operators, that is, by using an approximate quasi-contractive operator we approximate the fixed point of the given operators.

References

- Chifu, G. Petru, "Existence and Data Dependence of Fixed Points and Strict
Data Dependence of Some New Iterative Schemes for Quasi-Contractive Operators


- J. T. Markin, Continuous dependence of fixed point sets; Proc. AMS 38 (1973) 545-547.


- M. O. Olatinwo, Some results on the continuous dependence of the fixed points in normed linear space; Fixed Point Theory, 10(2009), no. 1, 151-157.


- R. Chugh, V. Kumar, Data dependence of Noor and SP iterative schemes when dealing with quasi-contractive operators; International Journal of Computer Applications, 31(2011), no. 5.

- R. Chugh, V. Kumar, S. Kumar, Strong convergence of a new three step iterative scheme in Banach spaces; American Journal of Computational Mathematics, 2(2012), 345-357.


- S. M. Soltuz, T. Grosan, Data dependence for Ishikawa iteration when dealing with contractive like operators; Fixed Point Theory and Applications, 2008(2008), Article ID 242916, 7 pages.

- T. Zamfirescu, Fixed point theorems in metric spaces; Archiv der Mathematik, 23(1972), no. 1, 292-298.


**Index Terms**

Computer Science  
Applied Mathematics

**Keywords**

CR Iteration  
Data Dependence  
New Multistep Iteration  
Quasi Contractive