Abstract

The aim of this article is to introduce a new iterative scheme namely CR iterative scheme with errors and prove a general convergence theorem to approximate the unique common fixed point of three operators satisfying a certain contractive condition in an arbitrary Banach space using this newly introduced iterative scheme. An example showing the validity of our results is provided. Comparative analysis of new iterative scheme with already existing iterative schemes is also shown using programming in C++.

References

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- Zamfirescu, T., Fix Point Theorems in Metric Spaces, Arch. Math. 23 (1972), 292-298.

**Index Terms**

Computer Science  Applied Mathematics
Keywords
CR Iterative Scheme; Quasi-contractive Operators.