On the Convergence of Logistic Map in NOOR Orbit

Abstract

The logistic map \(rx(1-x)\) was given by the Belgian mathematician Pierre Francois Verhulst around 1845 and worked as basic model to study the discrete dynamical system. The behavior of logistic map has been already studied in orbits of one-step, two-step and three-step iterative procedures and it has been established that the logistic map is convergent for larger values of \(r\) for two-step and three-step iteration methods. In this paper, an attempt have been made to study the convergence of logistic map in Noor orbit, which is a four-step iterative procedure.

References

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Index Terms

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Keywords

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