Abstract

We explore in this paper the dynamics of the inverse complex function using the Ishikawa iterates. The z plane fractal images generated from the generalized transformation function $z \rightarrow (z + c)^{-1}$ for $n \geq 2$ are analyzed.

Reference

- P. Blanchard, Complex Analytic Dynamics on the Riemann Sphere, Bulletin of the
- S. Dhurandar, V. C. Bhavsar and U. G. Gujar, “Analysis of z-plane fractal images from
for α
U. G. Gujar and V. C. Bhavsar, Fractals from in the Complex c-Plane, Computers
- U. G. Gujar, V. C. Bhavsar and N. Vangala, Fractals from in the Complex z-Plane,
(1991), 579-582.
147-150.
(1993), 603-607.
- R. Rana, Y. S. Chauhan and A. Negi, Non Linear dynamics of Ishikawa Iteration, In
- S. T. Welstead and T. L. Cromer, Coloring Periodicities of Two-dimensional Mappings,

Index Terms

Computer Science  Applied Mathematics

Key words

Complex dynamics   Relative Superior Mandelbrot Set
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