The Effect of Multiple Rotations on a Unified System of Affine Transformations with related Trigonometric Coefficients

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Abstract

In IFS fractals generated by affine transformations with arbitrary coefficients often there is a lot of chaotic noise. In the present paper the author studies the effect of multiple rotations on affine transformations with related trigonometric coefficients in terms of the IFS fractals generated by them. In the process a unified set of equations for generating both the Highway Dragon and the C curve have been developed. The effect of multiple rotations is to lend additional depth to the generated fractal as well as create new fractal designs.

References


8. Index Terms

   Computer Science            Information Sciences

9. Keywords

   affine, IFS, rotation, trigonometric.