Review

Fractal art: fractal image and music generator

Tanasie R., Popescu M., Bogheanu D., Ciocoiu G., Cojocaru D. Signal processing, computational geometry & artificial vision (Proceedings of the 7th WSEAS International Conference on Signal Processing, Computational Geometry & Artificial Vision, Athens, Greece, Aug 24-26, 2007) 159-164. 2007. Type: Proceedings

Date Reviewed: Jun 26 2008

Full Text

It is not easy to provide an introductory overview of what a fractal is and how it can be constructed; it is even more difficult to present a possible program that can interpret the geometric properties of a fractal and turn them into music. In this sense, the paper is a very interesting achievement. It offers the preliminary knowledge necessary to understand some of the geometric properties of fractals, and then describes a program that can draw the fractal under a function related to the behavior of the iterating orbits, while other functions translate the color gradients and the pixel positions into a possible sound interpretation that can be called fractal music.

Tanasie et al. do not offer the pseudocode for the translation of images into music, only a very general description, but surely such a program cannot be unique; to produce music, many other programs can interpret the rendered image into acoustic patterns that can be arranged into harmonic frequencies corresponding to a given musical note, of a given instrument, within certain tessitura.

I am certain this paper can inspire some other researchers or artists to develop their own interpretation of an image into fractal music.

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