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"Um Estudo sobre Metodologias de Codificação Fractal"

With the development of the visual computation, the growth of image banks, the sprouting of the digital TV, of the multimedia microcomputers and of the more intense use of networks, the necessities of efficient storage and transmission of imagens had become bigger. Several are the forms to transmit and to store imagens efficiently, and new technologies have appeared in this direction. Fractal coding can be considered one of these new forms.

In this work a study on known methodologies is effected. These methodologies are implemented in a fractal base program from the descriptions contained in papers. Also a new methodology is developed, that uses the the method created is made, using a set of test imagens, in gray-scale, leading in consideration the Time, the Error rms, the Signal to Noise Ratio rms and the Peak Signal to Noise Ratio. Some Known techniques of compression of color imagens are implemented and their results also are compared.

This work aims to contribute for a better known of the fractal compression, making possible a better visual quality of image.