

## Restauración de Imágenes en Escala de Grises usando una red Neuronal Polinómica Discreta Recurrente

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### Abstract

In this work, a recurrent discrete polynomial neural network is constructed from the fixed-point attractors of cubic polynomials; and is used in grayscale image restoration. In addition, a criterion is provided for the assignment of values to the synaptic weights of the neural network, which will guarantee the stability of the neural network.

**Keywords:** Neural network, fixed point, attractor, image restoration.

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