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In our presentation of the visual cortical models we will use the term Pulse-Coupled Neural Network (PCNN). The PCNN is a neural network algorithm that produces a series of binary pulse images when stimulated with a grey scale or colour image.

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Pulse-coupled neural network (PCNN), which simulates the synchronous oscillation phenomenon in the visual cortex of small mammals, has become a useful model for image processing.

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Pulse-coupled networks or pulse-coupled neural networks (PCNNs) are neural models proposed by modeling a cat's visual cortex, and developed for high-performance biomimetic image processing.. In 1989, Eckhorn introduced a neural model to emulate the mechanism of

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cat's visual cortex. The Eckhorn model provided a simple and effective tool for studying small mammal's visual cortex, and was soon ...

## ~~Pulse-coupled networks - Wikipedia~~

In addition, the image edge extraction is helpful to the clinical diagnosis. So this paper constructs a memristive pulse coupled neural network (M-PCNN) for medical image processing. The memristance of Gale memristor decays exponentially with time, which can be used to adjust the threshold of pulse coupled neural network (PCNN) online.

## ~~Memristive pulse-coupled neural network with applications ...~~

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## ~~Image processing using pulse-coupled neural networks ...~~

Pulse-coupled neural networks represent a new and exciting advance in image processing research. When exposed to grey scale or colour images they produce a series of binary pulse images which allow the content of the image to be assessed much more accurately than from the original.

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