

Fundamentals Of Artificial Neural Networks

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Fundamentals Of Artificial Neural Networks

Artificial Neural Network Fundamentals. Artificial neural networks (ANNs) describe a specific class of machine learning algorithms designed to acquire their own knowledge by extracting useful patterns from data. ANNs are function approximators, mapping inputs to outputs, and are composed of many interconnected computational units, called neurons.

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Our neural network Black and white images are feed as input and processed through pre-processing network which removes noise from grayscale video The second layer/network is called as source - refrence network which takes output from pre-processing network along with refrence colour images and colorizes image based on it. source-refrence network consits of Temporal Source-Reference Attention which helps us to compute similarities between the reference images and the input images and it ...

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The perceptron is the first and simplest artificial neural network model. ANNs work the same way; A neural network consists of an input layer, one or more hidden layers, and finally an output layer; The input values are fixed, the synaptic coefficients (weights) and the bias are the only parameters which can be controlled;

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