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## Fundamentals Of Artificial Neural Networks

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## Fundamentals Of Artificial Neural Networks

The introduction to this Chapter concerns principal ideas of the formulation of Artificial Neural Networks (ANNs), main features of neurocomputation, its development and applications. The main attention is paid to feedforward NNs, especially to the error backpropagation algorithm and Back-Propagation Neural Networks (BPNNs).

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## Fundamentals Of Artificial Neural Networks

Artificial neural networks (ANNs) are relatively new computational tools that have found extensive utilization in solving many complex real-world problems. The attractiveness of ANNs comes from their remarkable information processing characteristics pertinent mainly to nonlinearity, high parallelism, fault and noise tolerance, and learning and generalization capabilities.

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In the remainder of this book, the terms artificial neural network, neural network, network, and net will be used interchangeably, unless noted otherwise. Before proceeding any further, note that the n-input PTG(r) of Chapter One can be considered as a form of a neural network with a "fixed" preprocessing (hidden) layer feeding

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into a single LTG in its output layer, as was shown in Figure 1.3.4.

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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 - reference network which takes output from pre-processing network along with reference colour images and colorizes image based on it. source-reference network consists 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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