

## Introduction To Artificial Neural Systems Solution Manual

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### Lec-1 Introduction to Artificial Neural Networks

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Artificial neural system computation lies in the middle ground between engineering and artificial intelligence. The mathematical techniques utilized, such as mean-square error minimization, are engineering-like, but an experimental ad hoc approach is often necessary.

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### Introduction to Artificial Neural Systems by Jacek M. Zurada

introduction to artificial neural systems Jacek M. Zurada received his MS and Ph.D. degrees (with distinction) in electrical engineering from the Technical University of Gdansk, Poland. Since 1989 he has been a Professor with the Electrical and Computer Engineering Department at the University of Louisville, Kentucky.

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Artificial neural systems usually take a much simpler form than their biological counterparts. Figure 1 illustrates an artificial neural network with two layers of nodes (neurons)ne input, the other output, equivalently, one layer of connections. The simplified representation is adequate for our purposes, and for many popular algorithms as well.

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It is one of the basic elements of our nervous system. The artificial neuron is modelled based on the biological one and can be represented as a mathematical function or a single processing unit that is part of a network. As with the biological neuron the artificial one is also connected to other neurons in the network.

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