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in Python from  
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*How Deep Neural*

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~~(in Arabic)~~

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~~Networks 2:~~

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This text

provides a

systematic

account of

artificial



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fundamental  
paradigms by  
identifying the  
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aim of such a systematic and unified treatment is to make the subject more accessible to students and practitioners.

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are most  
suitable for  
solving problems  
that are  
complex, ill-

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Fundamentals

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Neural Network

Fundamentals.

Artificial

neural networks

(ANNs) describe

a specific class

of machine

learning

algorithms



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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

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units, called  
neurons.

Fundamentals Of  
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Networks  
The introduction  
to this Chapter  
concerns  
principal ideas  
of the  
formulation of  
Artificial  
Neural Networks

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(ANNs), main features of neurocomputation, its development and applications.

The main attention is paid to feedforward NNs, especially to the error backpropagation algorithm and

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Back-Propagation  
Neural Networks  
(BPNNs).

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Computational  
Capabilities of  
Artificial  
Neural Networks  
2.0 Introduction

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2.1 Some Fundamentals  
Preliminary  
Results on  
Neural Network  
Mapping  
Capabilities  
2.1.1 Network  
Realization of  
Boolean  
Functions 2.1.2  
Bounds on the  
Number of  
Functions  
Realizable by a

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Feedforward  
Network of LTG's

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neural networks

(ANNs) are

relatively new

computational

tools that have

found extensive

utilization in

solving many



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complex real-world problems. The attractiveness of ANNs comes from their remarkable information processing characteristics pertinent mainly to nonlinearity, high parallelism,

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fault and noise  
tolerance, and  
learning and  
generalization  
capabilities.

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## Artificial Neural Network

1. What is a  
Neural Network?  
Neural Networks  
(NN), also  
called as  
Artificial  
Neural Network  
is named after  
its... 2. How a  
Single Neuron  
works? In this  
section, we will

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explore the  
working of a  
single neuron  
with easy  
examples. . . .

Artificial  
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In the remainder  
of this book,  
the terms  
artificial

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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

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a form of a neural network with a "fixed" preprocessing (hidden) layer feeding into a single LTG in its output layer, as was shown in Figure 1.3.4.

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Artificial  
Neural Networks  
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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

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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-

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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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are computa-  
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the biological  
counterparts,  
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that have  
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he provides the first systematic account of artificial neural network paradigms by identifying clearly the fundamental concepts and major...

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- Mohamad H ...  
Artificial  
Neural Network  
Fundamentals.

Artificial  
neural networks  
(ANNs) describe  
a specific class  
of machine  
learning  
algorithms  
designed to  
acquire their

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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. Each



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Individuals  
neuron possesses  
little intrinsic  
approximation  
capability;  
however, when  
many neurons  
function  
cohesively  
together, their  
combined ...

Artificial  
Neural Network

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Fundamentals

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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

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fundamentals  
Of Artificial  
Neural  
Networks

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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As book review  
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has had the  
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neural networks  
that have  
appeared in  
recent years.

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first systematic  
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Identifying  
clearly the  
fundamental  
concepts and  
major  
methodologies  
underlying most  
of the current  
theory and  
practice  
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systematic and unified treatment, although sadly lacking in most recent texts on neural networks, makes the subject more accessible to students and practitioners. Here, important results are

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Networks  
will aid in the  
development of  
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analysis and  
design skills,  
and a  
bibliography of  
nearly 700  
references.  
Proceeding in a

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logical fashion,  
the first two  
chapters present  
the basic  
building blocks  
and concepts of  
artificial  
neural networks  
and analyze the  
computational  
capabilities of  
the basic  
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involved.  
Supervised,  
reinforcement,  
and unsupervised  
learning rules  
in simple nets  
are brought  
together in a  
common framework  
in chapter  
three. The  
convergence and  
solution

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properties of these learning rules are then treated mathematically in chapter four, using the "average learning equation" analysis approach. This organization of material makes

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it natural to switch into learning multilayer nets using backprop and its variants, described in chapter five. Chapter six covers most of the major neural network paradigms, while

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memories and  
energy  
minimizing nets  
are given  
detailed  
coverage in the  
next chapter.  
The final  
chapter takes up  
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with other  
global search/optimization  
algorithms such  
as stochastic  
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simulated  
annealing, and  
genetic  
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and allow  
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art in machine  
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ideas underpin the study of neural networks, the author presents the fundamentals without the full mathematical apparatus. All aspects of the field are tackled, including artificial

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models of their  
real  
counterparts;  
the geometry of  
network action  
in pattern  
space; gradient  
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propagation;  
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memory and  
Hopfield nets;

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and self-organization and feature maps.

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real-world  
examples to  
provide a  
concrete focus.  
This should  
enhance its  
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and highly  
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introduction to  
one of the most  
important topics  
in cognitive and

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computer science, this volume should interest a wide range of readers, both students and professionals, in cognitive science, psychology, computer science and electrical engineering.

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### Fundamentals

Neural Networks  
Of Artificial  
Neural  
Networks  
are a new, inter  
disciplinary  
tool for  
information  
processing.  
Neurocomputing  
being  
successfully  
introduced to  
structural  
problems which  
are difficult or



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Even impossible to be analysed by standard computers (hard computing). The book is devoted to foundations and applications of NNs in the structural mechanics and design of structures.

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The book covers the most essential and widely employed material in each area, particularly the material important for real-world applications.

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to cover every latest progress in the fields, nor to discuss every detail of various techniques that have been developed. New sections/subsections added in this edition are: Simulated Annealing

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(Section 3.7),  
Boltzmann  
Machines  
(Section 3.8)  
and Extended  
Fuzzy if-then  
Rules Tables  
(Sub-section  
5.5.3). Also,  
numerous changes  
and  
typographical  
corrections have  
been made

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throughout the manuscript. The Preface to the first edition follows. General scope of the book Artificial intelligence (AI) as a field has undergone rapid growth in diversification and practicality.

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For the past few decades, the repertoire of AI techniques has evolved and expanded. Scores of newer fields have been added to the traditional symbolic AI. Symbolic AI covers areas such as

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Knowledge-based systems, logical reasoning, symbolic machine learning, search techniques, and natural language processing. The newer fields include neural networks, genetic algorithms or evolutionary

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set theory, and  
chaotic systems.

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