

# 10 TYPES OF ARTIFICIAL NEURAL NETWORKS

## 1 Feedforward Neural Networks (FNNs)

The simplest type of ANN, where connections between the nodes do not form a cycle. This network moves information forward from input to output layers, possibly through multiple hidden layers.

## 3 Recurrent Neural Networks (RNNs)

Networks with loops allowing information to be stored within the network, which makes them ideal for sequential data such as time series, speech, text, and financial data.

## 5 Gated Recurrent Units (GRUs)

This network moves information forward from input to output layers, possibly through multiple hidden layers.

## 7 Generative Adversarial Networks (GANs)

Consist of two networks, a generator and a discriminator, that are trained simultaneously. GANs are used in unsupervised learning tasks like generating realistic images and videos.

## 9 Self-Organizing Maps (SOMs)

Unsupervised learning networks used for dimensionality reduction, mainly in feature detection and visualization of high-dimensional data.

## 8 Radial Basis Function (RBF) Networks

Utilize radial basis functions as activation functions. They are used in function approximation, time series prediction, and control systems.

## 10 Modular Neural Networks

Composed of a series of different networks working independently and contributing towards the output. Used in complex problems where the task can be divided into smaller tasks.

## 2 Convolutional Neural Networks (CNNs)

Designed for processing data that come in the form of multiple arrays, such as images. CNNs are widely used in image and video recognition, image classification and medical image analysis.

## 4 Long Short-Term Memory Networks (LSTMs)

A kind of RNN capable of learning long-term dependencies. Useful for tasks that require remembering information for long periods, such as in language modeling and translation.

## 6 Autoencoders

Used for unsupervised learning, particularly in dimensionality reduction and feature learning.



# Chapter 7 Artificial Neural Networks And Their Applications

**Yijin Wang**



## **Chapter 7 Artificial Neural Networks And Their Applications:**

**ARTIFICIAL NEURAL NETWORKS** Dr. N.N. Praboo, Shylaja. P, Data Mining Mehmed Kantardzic, 2019-10-23  
Presents the latest techniques for analyzing and extracting information from large amounts of data in high dimensional data spaces The revised and updated third edition of Data Mining contains in one volume an introduction to a systematic approach to the analysis of large data sets that integrates results from disciplines such as statistics artificial intelligence data bases pattern recognition and computer visualization Advances in deep learning technology have opened an entire new spectrum of applications The author a noted expert on the topic explains the basic concepts models and methodologies that have been developed in recent years This new edition introduces and expands on many topics as well as providing revised sections on software tools and data mining applications Additional changes include an updated list of references for further study and an extended list of problems and questions that relate to each chapter This third edition presents new and expanded information that Explores big data and cloud computing Examines deep learning Includes information on convolutional neural networks CNN Offers reinforcement learning Contains semi supervised learning and S3VM Reviews model evaluation for unbalanced data Written for graduate students in computer science computer engineers and computer information systems professionals the updated third edition of Data Mining continues to provide an essential guide to the basic principles of the technology and the most recent developments in the field

**An Introduction to Biological and Artificial Neural Networks for Pattern Recognition** Steven K. Rogers, Matthew Kabrisky, 1991 Artificial Neural Networks V. Rao Vemuri, 1992 *Recent Advances in Artificial Neural Networks* L. C. Jain, 2018-05-04 Neural networks represent a new generation of information processing paradigms designed to mimic in a very limited sense the human brain They can learn recall and generalize from training data and with their potential applications limited only by the imaginations of scientists and engineers they are commanding tremendous popularity and research interest Over the last four decades researchers have reported a number of neural network paradigms however the newest of these have not appeared in book form until now *Recent Advances in Artificial Neural Networks* collects the latest neural network paradigms and reports on their promising new applications World renowned experts discuss the use of neural networks in pattern recognition color induction classification cluster detection and more Application engineers scientists and research students from all disciplines with an interest in considering neural networks for solving real world problems will find this collection useful

*Deep Learning for NLP and Speech Recognition* Uday Kamath, John Liu, James Whitaker, 2019-06-10 This textbook explains Deep Learning Architecture with applications to various NLP Tasks including Document Classification Machine Translation Language Modeling and Speech Recognition With the widespread adoption of deep learning natural language processing NLP and speech applications in many areas including Finance Healthcare and Government there is a growing need for one comprehensive resource that maps deep learning techniques to NLP and speech and provides insights into using the tools and libraries for real world

applications Deep Learning for NLP and Speech Recognition explains recent deep learning methods applicable to NLP and speech provides state of the art approaches and offers real world case studies with code to provide hands on experience Many books focus on deep learning theory or deep learning for NLP specific tasks while others are cookbooks for tools and libraries but the constant flux of new algorithms tools frameworks and libraries in a rapidly evolving landscape means that there are few available texts that offer the material in this book The book is organized into three parts aligning to different groups of readers and their expertise The three parts are Machine Learning NLP and Speech Introduction The first part has three chapters that introduce readers to the fields of NLP speech recognition deep learning and machine learning with basic theory and hands on case studies using Python based tools and libraries Deep Learning Basics The five chapters in the second part introduce deep learning and various topics that are crucial for speech and text processing including word embeddings convolutional neural networks recurrent neural networks and speech recognition basics Theory practical tips state of the art methods experimentations and analysis in using the methods discussed in theory on real world tasks Advanced Deep Learning Techniques for Text and Speech The third part has five chapters that discuss the latest and cutting edge research in the areas of deep learning that intersect with NLP and speech Topics including attention mechanisms memory augmented networks transfer learning multi task learning domain adaptation reinforcement learning and end to end deep learning for speech recognition are covered using case studies

*Neural Network Fundamentals with Graphs, Algorithms, and Applications* Nirmal K. Bose, Ping Liang, 1996

*An Introduction to Neural Networks* James A. Anderson, 1995

An Introduction to Neural Networks falls into a new ecological niche for texts Based on notes that have been class tested for more than a decade it is aimed at cognitive science and neuroscience students who need to understand brain function in terms of computational modeling and at engineers who want to go beyond formal algorithms to applications and computing strategies It is the only current text to approach networks from a broad neuroscience and cognitive science perspective with an emphasis on the biology and psychology behind the assumptions of the models as well as on what the models might be used for It describes the mathematical and computational tools needed and provides an account of the author's own ideas Students learn how to teach arithmetic to a neural network and get a short course on linear associative memory and adaptive maps They are introduced to the author's brain state in a box BSB model and are provided with some of the neurobiological background necessary for a firm grasp of the general subject The field now known as neural networks has split in recent years into two major groups mirrored in the texts that are currently available the engineers who are primarily interested in practical applications of the new adaptive parallel computing technology and the cognitive scientists and neuroscientists who are interested in scientific applications As the gap between these two groups widens Anderson notes that the academics have tended to drift off into irrelevant often excessively abstract research while the engineers have lost contact with the source of ideas in the field Neuroscience he points out provides a rich and valuable source of ideas about

data representation and setting up the data representation is the major part of neural network programming Both cognitive science and neuroscience give insights into how this can be done effectively cognitive science suggests what to compute and neuroscience suggests how to compute it *A Neural Network Model, Its Properties and Applications* Xin Xu,1990 Data Science Using Oracle Data Miner and Oracle R Enterprise Sibanja Das,2016-12-22 Automate the predictive analytics process using Oracle Data Miner and Oracle R Enterprise This book talks about how both these technologies can provide a framework for in database predictive analytics You ll see a unified architecture and embedded workflow to automate various analytics steps such as data preprocessing model creation and storing final model output to tables You ll take a deep dive into various statistical models commonly used in businesses and how they can be automated for predictive analytics using various SQL PLSQL ORE ODM and native R packages You ll get to know various options available in the ODM workflow for driving automation Also you ll get an understanding of various ways to integrate ODM packages ORE and native R packages using PLSQL for automating the processes Data Science Automation Using Oracle Data Miner and Oracle R Enterprise starts with an introduction to business analytics covering why automation is necessary and the level of complexity in automation at each analytic stage Then it focuses on how predictive analytics can be automated by using Oracle Data Miner and Oracle R Enterprise Also it explains when and why ODM and ORE are to be used together for automation The subsequent chapters detail various statistical processes used for predictive analytics such as calculating attribute importance clustering methods regression analysis classification techniques ensemble models and neural networks In these chapters you will also get to understand the automation processes for each of these statistical processes using ODM and ORE along with their application in a real life business use case What you ll learn Discover the functionality of Oracle Data Miner and Oracle R Enterprise Gain methods to perform in database predictive analytics Use Oracle s SQL and PLSQL APIs for building analytical solutions Acquire knowledge of common and widely used business statistical analysis techniques Who this book is for IT executives BI architects Oracle architects and developers R users and statisticians **Application of Neural Networks to Modelling and Control** G. F. Page,J. B. Gomm,D. Williams,1993 *Neural Networks for Control and Systems* Kevin Warwick,George William Irwin,Kenneth J. Hunt,1992 Presents an overview of the present state of neural network research and development with particular reference to systems and control applications studies Following an introduction to basic principles and design procedures the text then covers advanced structures and applications **Neural Computing for Structural Mechanics** B. H. V. Topping,Ardeshir Bahreininejad,1997 Describing the application of artificial neural networks to structural mechanics this book will be of interest to engineers computer scientists and mathematicians working on the application of neural computing to structural mechanics and in particular finite element problems It is accompanied by a voucher for a free software disk Power Plants and Power Systems Control 2003 Kwang Y Lee,Myong-Chul Shin,2004-04 Approx 422 pages **International Journal of Electrical Engineering Education** ,1995 **Data Mining with Neural Networks** Joseph

P. Bigus,1996 readers will find concrete implementation strategies reinforced with real world business examples and a minimum of formulas and case studies drawn from a broad range of industries The book illustrates the popular data mining functions of classification clustering modeling and time series forecasting through examples developed using the IBM Neural Network Utility     **Applications of Artificial Neural Networks** ,1992     Data-Driven Solutions to Transportation Problems Yinhai Wang,Ziqiang Zeng,2018-12-04 Data Driven Solutions to Transportation Problems explores the fundamental principle of analyzing different types of transportation related data using methodologies such as the data fusion model the big data mining approach computer vision enabled traffic sensing data analysis and machine learning The book examines the state of the art in data enabled methodologies technologies and applications in transportation Readers will learn how to solve problems relating to energy efficiency under connected vehicle environments urban travel behavior trajectory data based travel pattern identification public transportation analysis traffic signal control efficiency optimizing traffic networks network and much more Synthesizes the newest developments in data driven transportation science Includes case studies and examples in each chapter that illustrate the application of methodologies and technologies employed Useful for both theoretical and technically oriented researchers     **Applications of Artificial Neural Networks III** ,1992     *Using Neural Networks for Risk Assessment in Internal Auditing* Sridhar Ramamoorti,Richard O. Traver,Michael W. Godsell,1998

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