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Neural Networks are a
new, interdisciplinary

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tool for information
processing.

Neurocomputing being
successfully introduced
to structural problems
which are difficult or
even impossible to be

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

Get Free Practical Neural Network Recipes In C With Diskette structures.

The use of neural networks is permeating every area of signal processing. They can provide powerful means for solving many

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problems, especially in
nonlinear, real-time,
adaptive, and blind
signal processing. The
Handbook of Neural
Network Signal
Processing brings

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together applications
that were previously
scattered among various
publications to provide
an up-to-date, detailed
treatment of the subject
from an engineering

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point of view. The authors cover basic principles, modeling, algorithms, architectures, implementation procedures, and well-

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designed simulation
examples of audio,
video, speech,
communication,
geophysical, sonar,
radar, medical, and many
other signals. The

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subject of neural
networks and their
application to signal
processing is constantly
improving. You need a
handy reference that
will inform you of

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current applications in
this new area. The
Handbook of Neural
Network Signal
Processing provides this
much needed service for
all engineers and

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scientists in the field.

Volume 16 Reviews In
Computational Chemistry

Kenny B. Lipkowitz and
Donald B. Boyd The focus
of this book is on
methods useful in

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molecular design.

Tutorials and reviews
span (1) methods for
designing compound
libraries for
combinatorial chemistry
and high throughput

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screening, (2) the
workings of artificial
neural networks and
their use in chemistry,
(3) force field methods
for modeling materials
and designing new

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substances, and (4) free energy perturbation methods of practical usefulness in ligand design. From Reviews of the Series "This series spans all the

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subdisciplines in the field, from techniques to practical applications, and includes reviews from many of the acknowledged leaders in the field.

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the reviews cross many
subdisciplines yet are
both general enough to
be of wide interest
while including detailed
information of use to
workers in particular

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subdisciplines."

-Journal of the American
Chemical Society

Inhaltsangabe:Abstract:

In the 1980s research
efforts and successes
made artificial neural

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networks popular. Since the 1990s engineers have been using this foundation for problem solving. But artificial neural network solutions for "real-world"

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problems are sometimes hard to find because of the complexity of the domain and because of the vast number of design attributes the engineer has to deal

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**with. This thesis
provides a structured
overview of attributes
in the design process of
artificial neural
networks and reviews
technical process**

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models. Current
development methods for
artificial neural
networks are then
reviewed and critiqued.
The thesis concludes
with a new design and

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development method for
artificial neural
networks.

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A Design and Development
Method for Artificial
Neural Network Projects
Practical Neural Network
Recipes in C++
Practical Deep Learning
Object-Oriented Neural

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Networks in C++

Artificial Neural

Networks in Hydrology

Neural Networks

Artificial neural networks
(ANNs) present many benefits
in analyzing complex data in

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a proficient manner. As an effective and efficient problem-solving method, ANNs are incredibly useful in many different fields. From education to medicine and banking to engineering, artificial neural networks

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are a growing phenomenon as more realize the plethora of uses and benefits they provide. Due to their complexity, it is vital for researchers to understand ANN capabilities in various fields. The Research

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Anthology on Artificial
Neural Network Applications
covers critical topics
related to artificial neural
networks and their multitude
of applications in a number
of diverse areas including
medicine, finance,

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operations research,
business, social media,
security, and more. Covering
everything from the
applications and uses of
artificial neural networks
to deep learning and non-
linear problems, this book

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is ideal for computer
scientists, IT specialists,
data scientists,
technologists, business
owners, engineers,
government agencies,
researchers, academicians,
and students, as well as

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anyone who is interested in learning more about how artificial neural networks can be used across a wide range of fields.

Content Description

#Includes bibliographical references and index.

Get Free Practical Neural Network Recipes In C With Diskette

This book is designed to guide you through TensorFlow and how to use it effectively. Throughout the book, you will work through recipes and get hands-on experience to perform complex data computations,

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gain insights into your
data, and more.

This book constitutes the
refereed proceedings of the
17th International
Conference on Engineering
Applications of Neural
Networks, EANN 2016, held in

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Aberdeen, UK, in September 2016. The 22 revised full papers and three short papers presented together with two tutorials were carefully reviewed and selected from 41 submissions. The papers are

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organized in topical
sections on active learning
and dynamic environments;
semi-supervised modeling;
classification applications;
clustering applications;
cyber-physical systems and
cloud applications; time-

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series prediction; learning-
algorithms.

Python Deep Learning
Cookbook

Neural Networks in Transport
Applications

Reviews in Computational
Chemistry

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Exploratory Analysis of
Metallurgical Process Data
with Neural Networks and
Related Methods

Practical Solutions from
Preprocessing to Deep
Learning

7th International Symposium

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on Neural Networks, ISNN
2010, Shanghai, China, June
6-9, 2010, Proceedings

A large amount of information
about the world we live in is
supplied by our visual systems.
Humans perform the task of
vision effortlessly without being

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aware of this complex process. Hierarchical structures permit successful examination of such intricate operations. This book investigates hierarchical-structured neural networks for vision and image processing tasks and proposes various new neural

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network models for that purpose. It exploits the capabilities of hierarchical neural networks in a systematic way by considering the similarities to hierarchical structures already in use by computer vision researchers. All issues of hierarchical neural

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networks are treated in considerable detail; that is, the structure of the network, the representation issue, and learning mechanisms are analyzed theoretically as well as experimentally. Considering the similarity between conventional

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vision algorithms and hierarchical neural networks not only allows a transfer of knowledge between these two fields, but also gives voice to many new algorithms. This volume presents new trends and developments in soft computing techniques. Topics

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include: neural networks, fuzzy systems, evolutionary computation, knowledge discovery, rough sets, and hybrid methods. It also covers various applications of soft computing techniques in economics, mechanics, medicine, automatics

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and image processing. The book contains contributions from internationally recognized scientists, such as Zadeh, Bubnicki, Pawlak, Amari, Batyrshin, Hirota, Koczy, Kosinski, Novák, S.-Y. Lee, Pedrycz, Raudys, Setiono, Sincak,

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Strumillo, Takagi, Usui,
Wilamowski and Zurada. An
excellent overview of soft
computing methods and their
applications.

R. S. GOVINDARAJU and
ARAMACHANDRA RAO School of
Civil Engineering Purdue

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University West Lafayette, IN. ,
USA Background and Motivation
The basic notion of artificial
neural networks (ANNs), as we
understand them today, was
perhaps first formalized by
McCulloch and Pitts (1943) in
their model of an artificial neuron.

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Research in this field remained somewhat dormant in the early years, perhaps because of the limited capabilities of this method and because there was no clear indication of its potential uses. However, interest in this area picked up momentum in a

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dramatic fashion with the works of Hopfield (1982) and Rumelhart et al. (1986). Not only did these studies place artificial neural networks on a firmer mathematical footing, but also opened the dOOof to a host of potential applications for this

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computational tool. Consequently, neural network computing has progressed rapidly along all fronts: theoretical development of different learning algorithms, computing capabilities, and applications to diverse areas from neurophysiology to the stock

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market. . Initial studies on artificial neural networks were prompted by a desire to have computers mimic human learning. As a result, the jargon associated with the technical literature on this subject is replete with expressions such as excitation

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and inhibition of neurons, strength of synaptic connections, learning rates, training, and network experience. ANNs have also been referred to as neurocomputers by people who want to preserve this analogy. Practical Deep Learning teaches

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total beginners how to build the datasets and models needed to train neural networks for your own DL projects. If you've been curious about machine learning but didn't know where to start, this is the book you've been waiting for. Focusing on the

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subfield of machine learning known as deep learning, it explains core concepts and gives you the foundation you need to start building your own models. Rather than simply outlining recipes for using existing toolkits, Practical Deep Learning teaches

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you the why of deep learning and will inspire you to explore further. All you need is basic familiarity with computer programming and high school math—the book will cover the rest. After an introduction to Python, you'll move through key topics like how

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to build a good training dataset, work with the scikit-learn and Keras libraries, and evaluate your models' performance. You'll also learn:

- How to use classic machine learning models like k-Nearest Neighbors, Random Forests, and Support Vector

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incorporates everything you've learned. The perfect introduction to this dynamic, ever-expanding field, Practical Deep Learning will give you the skills and confidence to dive into your own machine learning projects.

Geophysical Applications of

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Artificial Neural Networks and
Fuzzy Logic

A C++ Sourcebook

Over 30 recipes for implementing
deep neural networks in Python

A Python-Based Introduction

Proceedings of the Sixth

International Conference on

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Neural Network and Soft
Computing, Zakopane, Poland,
June 11-15, 2002

Machine Learning with Python
Cookbook

*"This book is distinctive in that it
implements nodes and links as base*

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objects and then composes them into four different kinds of neural networks. Roger's writing is clear....The text and code are both quite readable. Overall, this book will be useful to anyone who wants to implement neural networks in C++

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(and, to a lesser extent, in other object-oriented programming languages.)...I recommend this book to anyone who wants to implement neural networks in C++."--D.L. Chester, Newark, Delaware in COMPUTING

REVIEWS Object-Oriented Neural

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Networks in C++ is a valuable tool for anyone who wants to understand, implement, or utilize neural networks. This book/disk package provides the reader with a foundation from which any neural network architecture can beconstructed. The author has

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employed object-oriented design and object-oriented programming concepts to develop a set of foundation neural network classes, and shows how these classes can be used to implement a variety of neural network architectures with a great deal of ease

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and flexibility. A wealth of neural network formulas (with standardized notation), object code implementations, and examples are provided to demonstrate the object-oriented approach to neural network architectures and to facilitate the

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*development of new neural network architectures. This is the first book to take full advantage of the reusable nature of neural network classes. Key Features * Describes how to use the classes provided to implement a variety of neural network*

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*architectures including ADALINE,
Backpropagation, Self-Organizing,
and BAM * Provides a set of reusable
neural network classes, created in
C++, capable of implementing any
neural network architecture **
Includes an IBM disk of the source

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*code for the classes, which is
platform independent * Includes an
IBM disk with C++ programs
described in the book*

*This is one of the first books to offer
practical in-depth coverage of the
Probabilistic Neural Network (PNN)*

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and several other neural nets and their related algorithms critical to solving some of today's toughest real-world computing problems. Includes complete C++ source code for basic and advanced applications.

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and Keras to develop smarter and more efficient data models

Key Features

Understand different neural networks and their implementation using Keras

Explore recipes for training and fine-tuning your neural network models

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*learning knowledge to practice with
real-world use-cases, tips, and tricks*
*Book Description Keras has quickly
emerged as a popular deep learning
library. Written in Python, it allows
you to train convolutional as well as
recurrent neural networks with speed*

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and accuracy. The Keras Deep Learning Cookbook shows you how to tackle different problems encountered while training efficient deep learning models, with the help of the popular Keras library. Starting with installing and setting up Keras, the book

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demonstrates how you can perform deep learning with Keras in the TensorFlow. From loading data to fitting and evaluating your model for optimal performance, you will work through a step-by-step process to tackle every possible problem faced

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while training deep models. You will implement convolutional and recurrent neural networks, adversarial networks, and more with the help of this handy guide. In addition to this, you will learn how to train these models for real-world

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*image and language processing tasks.
By the end of this book, you will have
a practical, hands-on understanding
of how you can leverage the power
of Python and Keras to perform
effective deep learning What you will
learn Install and configure Keras in*

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*TensorFlow Master neural network
programming using the Keras library
Understand the different Keras layers
Use Keras to implement simple feed-
forward neural networks, CNNs and
RNNs Work with various datasets
and models used for image and text*

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*classification Develop text
summarization and reinforcement
learning models using Keras Who this
book is for Keras Deep Learning
Cookbook is for you if you are a data
scientist or machine learning expert
who wants to find practical solutions*

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*to common problems encountered
while training deep learning models.
A basic understanding of Python and
some experience in machine learning
and neural networks is required for
this book.*

Whether you're a software engineer

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aspiring to enter the world of deep learning, a veteran data scientist, or a hobbyist with a simple dream of making the next viral AI app, you might have wondered where to begin. This step-by-step guide teaches you how to build practical deep learning

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applications for the cloud, mobile, browsers, and edge devices using a hands-on approach. Relying on years of industry experience transforming deep learning research into award-winning applications, Anirudh Koul, Siddha Ganju, and Meher Kasam

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*guide you through the process of
converting an idea into something that
people in the real world can use.*

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vision models with Keras,*

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Innovations in ART Neural Networks

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*Proceedings of the ANNIMAB-1
Conference, Göteborg, Sweden,
13–16 May 2000*

*Practical Deep Learning for Cloud,
Mobile, and Edge*

*Neural Networks in the Analysis and
Design of Structures*

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*Handbook of Neural Network Signal
Processing*

Deep Learning Cookbook

The past fifteen years has witnessed an explosive growth in the fundamental research and applications of artificial neural networks (ANNs) and fuzzy logic

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(FL). The main impetus behind this growth has been the ability of such methods to offer solutions not amenable to conventional techniques, particularly in application domains involving pattern recognition, prediction and control. Although the origins of ANNs and FL may be traced back to the 1940s and

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1960s, respectively, the most rapid progress has only been achieved in the last fifteen years. This has been due to significant theoretical advances in our understanding of ANNs and FL, complemented by major technological developments in high-speed computing. In geophysics, ANNs and FL have enjoyed

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significant success and are now employed routinely in the following areas (amongst others): 1. Exploration Seismology. (a) Seismic data processing (trace editing; first break picking; deconvolution and multiple suppression; wavelet estimation; velocity analysis; noise identification/reduction; statics analysis;

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dataset matching/prediction, attenuation),
(b) AVO analysis, (c) Chimneys, (d)
Compression I dimensionality reduction,
(e) Shear-wave analysis, (f) Interpretation
(event tracking; lithology prediction and
well-log analysis; prospect appraisal;
hydrocarbon prediction; inversion;
reservoir characterisation; quality

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assessment; tomography). 2. Earthquake Seismology and Subterranean Nuclear Explosions. 3. Mineral Exploration. 4. Electromagnetic I Potential Field Exploration. (a) Electromagnetic methods, (b) Potential field methods, (c) Ground penetrating radar, (d) Remote sensing, (e) inversion.

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This book constitutes the refereed proceedings of the 6th Mexican International Conference on Artificial Intelligence, MICAI 2007, held in Aguascalientes, Mexico, in November 2007. The 116 revised full papers presented were carefully reviewed and selected from numerous submissions for

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inclusion in the book. The papers are organized in sections on topics that include computational intelligence, neural networks, knowledge representation and reasoning, agents and multiagent systems. This book contains the proceedings of the conference ANNIMAB-1, held 13-16 May 2000 in Goteborg, Sweden. The

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conference was organized by the Society for Artificial Neural Networks in Medicine and Biology (ANNIMAB-S), which was established to promote research within a new and genuinely cross-disciplinary field. Forty-two contributions were accepted for presentation; in addition to these, S invited papers are also

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included. Research within medicine and biology has often been characterised by application of statistical methods for evaluating domain specific data. The growing interest in Artificial Neural Networks has not only introduced new methods for data analysis, but also opened up for development of new models of

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biological and ecological systems. The ANNIMAB-1 conference is focusing on some of the many uses of artificial neural networks with relevance for medicine and biology, specifically:

- Medical applications of artificial neural networks: for better diagnoses and outcome predictions from clinical and laboratory

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data, in the processing of ECG and EEG signals, in medical image analysis, etc.

More than half of the contributions address such clinically oriented issues. •

Uses of ANNs in biology outside clinical medicine: for example, in models of ecology and evolution, for data analysis in molecular biology, and (of course) in

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models of animal and human nervous systems and their capabilities. •

Theoretical aspects: recent developments in learning algorithms, ANNs in relation to expert systems and to traditional statistical procedures, hybrid systems and integrative approaches.

Neural Networks presents concepts of

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neural-network models and techniques of parallel distributed processing in a three-step approach: - A brief overview of the neural structure of the brain and the history of neural-network modeling introduces to associative memory, perceptrons, feature-sensitive networks, learning strategies, and practical

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applications. - The second part covers subjects like statistical physics of spin glasses, the mean-field theory of the Hopfield model, and the "space of interactions" approach to the storage capacity of neural networks. - The final part discusses nine programs with practical demonstrations of neural-

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network models. The software and source code in C are on a 3 1/2" MS-DOS diskette can be run with Microsoft, Borland, Turbo-C, or compatible compilers.

Practical Neural Network Recipes in C++
Artificial Higher Order Neural Networks
for Economics and Business

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Advanced Algorithms for Neural
Networks

Artificial Neural Networks in Water
Supply Engineering

Artificial Neural Networks in Medicine
and Biology

Research Anthology on Artificial Neural
Network Applications

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In the last two decades the artificial neural networks have been refined and widely used by the researchers and application engineers. We have not witnessed such a large degree of evolution in any other artificial neural network as in the Adaptive Resonance Theory (ART) neural network. The

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ART network remains plastic, or adaptive, in response to significant events and yet remains stable in response to irrelevant events. This stability-plasticity property is a great step towards realizing intelligent machines capable of autonomous learning in real time environment. The

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main aim of this book is to report a very small sample of the research on the evolution of ART neural network and its applications. Interested readers may refer literature for many more innovations in ART such as Fuzzy ART, ART2, ART2-a, ARTMAP, ARTMAP-PI, ARTMAP-DS, Gaussian

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ARTMAP, EXACT ART, and ART-EMAP.

This volume is concerned with the analysis and interpretation of multivariate measurements commonly found in the mineral and metallurgical industries, with the emphasis on the use of neural networks. The book is

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primarily aimed at the practicing metallurgist or process engineer, and a considerable part of it is of necessity devoted to the basic theory which is introduced as briefly as possible within the large scope of the field. Also, although the book focuses on neural networks, they cannot be divorced

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from their statistical framework and this is discussed in length. The book is therefore a blend of basic theory and some of the most recent advances in the practical application of neural networks.

Prepared by the Water Supply
Engineering Technical Committee of

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the Infrastructure Council of the Environmental and Water Resources Institute of ASCE. This report examines the application of artificial neural network (ANN) technology to water supply engineering problems. Although ANN has rarely been used in in this area, those who have done so

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report findings that were beyond the capability of traditional statistical and mathematical modeling tools. This report describes the availability of diverse applications, along with the basics of neural network modeling, and summarizes the experiences of groups of researchers around the

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world who successfully demonstrated significant benefits from using ANN technology in water supply engineering. Topics include: Forecasting salinity levels in River Murray, South Australia; Predicting gastroenteritis rates and waterborne outbreaks; Modeling pH levels in a

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eutrophic Middle Loire River, France;
and ANNs as function approximation
tools replacing rigorous mathematical
simulation models for analyzing water
distribution networks.

This book and its sister volume
constitutes the proceedings of the 7th
International Symposium on Neural

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Networks, ISSN 2010, held in Shanghai, China, June 6-9, 2010. The 170 revised full papers of Part I and Part II were carefully selected from 591 submissions and focus on topics such as Neurophysiological Foundation, Theory and Models, Learning and Inference, and

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Neurodynamics. The second volume, Part II (LNCS 6064) covers the following 5 topics: SVM and Kernel Methods, Vision and Image, Data Mining and Text Analysis, BCI and Brain Imaging, and applications.

World Congress on Neural Networks
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***Neural Networks, IWANN'99,
held in Alicante, Spain in
June 1999. The 91 revised
papers presented were
carefully reviewed and
selected for inclusion in the
book. This volume is***

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***devoted to applications of
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artificial neural networks in
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disciplines. The papers are
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processing, and engineering
applications.***

***This book was primarily
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networks or has had some experience with the algorithms, but would like to gain a deeper understanding of the fundamental material. For those that already have a solid grasp of how to

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create a neural network application, this work can provide a wide range of examples of nuances in network design, data set design, testing strategy, and error analysis.

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Computational, rather than artificial, modifiers are used for neural networks in this book to make a distinction between networks that are implemented in hardware and those that are

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***implemented in software.
The term artificial neural
network covers any
implementation that is
inorganic and is the most
general term. Computational
neural networks are only***

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implemented in software but represent the vast majority of applications. While this book cannot provide a blue print for every conceivable geophysics application, it does outline a basic

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***learning. No experience with
PyTorch or other deep
learning frameworks is
required. About The Authors
Eli Stevens has worked in
Silicon Valley for the past 15
years as a software***

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***engineer, and the past 7
years as Chief Technical
Officer of a startup making
medical device software.
Luca Antiga is co-founder
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***located in Bergamo, Italy,
and a regular contributor to
PyTorch. Thomas Viehmann
is a Machine Learning and
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***June 2-4, 1999, Proceedings
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***7th International
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have to be intimidating.
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book is intended for
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applications using Python. Thorough understanding of the machine learning concepts and Python libraries such as NumPy, SciPy and scikit-learn is expected. Additionally,

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