1. Record Nr.   UNINA9910454089903321

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   Titolo   Neural networks for intelligent signal processing [[electronic resource] /] / Anthony Zaknich

   Pubbl/distr/stampa   River Edge, NJ, : World Scientific, c2003

   ISBN   1-281-94787-3
                        9786611947873
                        981-279-685-1

   Descrizione fisica   1 online resource (510 p.)

   Collana   Series on innovative intelligence ; ; v. 4

   Disciplina   006.3/2

   Soggetti   Neural networks (Computer science)
                        Signal processing - Digital techniques
                        Intelligent control systems
                        Electronic books.

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia Includes bibliographical references and index.

   Nota di contenuto   Contents; Acknowledgments; Foreword; Preface; 1. Introduction; 1.1 Motivation for ANNs; 1.2 ANN Definitions and Main Types; 1.3 Specific ANN Models; 1.4 ANN Black Box Model; 1.5 ANN Implementation; 1.6 When To Use an ANN; 1.7 How To Use an ANN
                        1.8 General Applications 1.9 Pattern Recognition Examples; 1.9.1 Sheep Eating Phase Identification from Jaw Sounds; 1.9.2 Particle Isolation in SEM Images; 1.9.3 Oxalate Needle Detection in Microscope Images ; 1.10 Function Mapping and Filtering Examples
                        1.10.1 Water Level from Resonant Sound Analysis 1.10.2 Nonlinear Signal Filtering; 1.11 Motor Control Example; 1.12 ANN Summary; References; 2. A Brief Historical Overview; 2.1 ANN History to 1970; 2.1.1 Key Events prior to 1970; 2.2 ANN History after 1970
                        2.2.1 Key Events after 1970 to the Mid 1980's 2.2.2 Developments after the Mid 1980's; 2.2.3 Nonparametric Learning From Finite Data; 2.3 Reasons for the Resurgence of Interest in ANNs; 2.4 Historical Summary   ; References; 3. Basic Concepts; 3.1 The Basic Model of the Neuron
                        3.2 Activation Functions 3.3 Topologies; 3.4 Learning; 3.4.1 A Basic

Supervised Learning Algorithm; 3.4.2 A Basic Unsupervised Learning Algorithm; 3.5 The Basic McCulloch Pitts and Perceptron Models; 3.6 Vectors Spaces and Matrix Models; 3.6.1 ANN Classifiers
3.6.2 Vectors and Feature Spaces

Sommario/riassunto	This book provides a thorough theoretical and practical introduction to the application of neural networks to pattern recognition and intelligent signal processing. It has been tested on students, unfamiliar with neural networks, who were able to pick up enough details to successfully complete their masters or final year undergraduate projects. The text also presents a comprehensive treatment of a class of neural networks called common bandwidth spherical basis function NNs, including the probabilistic NN, the modified probabilistic NN and the general regression. Contents

2.	Record Nr.	UNINA9910135030203321
	Titolo	Macrocyclic and supramolecular chemistry : how Izatt-Christensen Award winners shaped the field / / edited by Reed M. Izatt
	Pubbl/distr/stampa	Chichester, West Sussex, England : , : Wiley, , 2016 ©2016
	ISBN	1-119-05387-0 1-119-05386-2 1-119-05385-4
	Descrizione fisica	1 online resource (775 p.)
	Disciplina	541/.226
	Soggetti	Izatt-Christensen Award in Macrocyclic and Supramolecular Chemistry Supramolecular chemistry - Awards Chemistry - Awards Macrocyclic compounds Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

Sommario/riassunto   Commemorates the 25th anniversary of the Izatt-Christensen Award,
which has been presented since 1991 at the annual meeting of the
International Symposium on Macrocyclic and Supramolecular Chemistry
(ISMSC). --