

Artificial Neural Networks



Artificial Neural Networks Artificial Neural Networks

Seoyun J. Kwon



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Artificial Neural Networks Robert J. Schalkoff, 1997 While the primary objective of the text is to provide a teaching tool practicing engineers and scientists are likely to find the clear concept based treatment useful in updating their backgrounds

Artificial Neural Networks Joao Luis Garcia Rosa, 2016-10-19 The idea of simulating the brain was the goal of many pioneering works in Artificial Intelligence The brain has been seen as a neural network or a set of nodes or neurons connected by communication lines Currently there has been increasing interest in the use of neural network models This book contains chapters on basic concepts of artificial neural networks recent connectionist architectures and several successful applications in various fields of knowledge from assisted speech therapy to remote sensing of hydrological parameters from fabric defect classification to application in civil engineering This is a current book on Artificial Neural Networks and Applications bringing recent advances in the area to the reader interested in this always evolving machine learning technique

Artificial Neural Networks Seoyun J. Kwon, 2011 An artificial neural network ANN is a type of artificial intelligence technology which implements more complex data analysis features into existing applications by an intelligent human like application of knowledge ANN can be considered as a mathematical or computational model based on biological brain neural networks ANN is an adaptive system that changes its structure based on external or internal information that is processed within the network during the learning stage ANNs implement algorithms that attempt to achieve neurologically related processes and performances such as learning from experience making generalisations from similar situations and judging states where poor results were achieved in the past This new and important book gathers the most current research from across the globe in the study of artificial neural networks

Artificial Neural Networks Dan W. Patterson, 1996 This comprehensive tutorial on artificial neural networks covers all the important neural network architectures as well as the most recent theory e g pattern recognition statistical theory and other mathematical prerequisites A broad range of applications is provided for each of the architectures

Introduction to Artificial Neural Networks Sivanandam S., Paulraj M, 2009-11-01 This fundamental book on Artificial Neural Networks has its emphasis on clear concepts ease of understanding and simple examples Written for undergraduate students the book presents a large variety of standard neural networks with architecture algorithms and applications

Principles Of Artificial Neural Networks (3rd Edition) Daniel Graupe, 2013-07-31 Artificial neural networks are most suitable for solving problems that are complex ill defined highly nonlinear of many and different variables and or stochastic Such problems are abundant in medicine in finance in security and beyond This volume covers the basic theory and architecture of the major artificial neural networks Uniquely it presents 18 complete case studies of applications of neural networks in various fields ranging from cell shape classification to micro trading in finance and to constellation recognition all with their respective source codes These case studies demonstrate to the readers in detail how such case studies are designed and executed and how their specific results are obtained The book is

written for a one semester graduate or senior level undergraduate course on artificial neural networks It is also intended to be a self study and a reference text for scientists engineers and for researchers in medicine finance and data mining

Principles Of Artificial Neural Networks: Basic Designs To Deep Learning (4th Edition) Daniel Graupe, 2019-03-15 The field of Artificial Neural Networks is the fastest growing field in Information Technology and specifically in Artificial Intelligence and Machine Learning This must have compendium presents the theory and case studies of artificial neural networks The volume with 4 new chapters updates the earlier edition by highlighting recent developments in Deep Learning Neural Networks which are the recent leading approaches to neural networks Uniquely the book also includes case studies of applications of neural networks demonstrating how such case studies are designed executed and how their results are obtained The title is written for a one semester graduate or senior level undergraduate course on artificial neural networks It is also intended to be a self study and a reference text for scientists engineers and for researchers in medicine finance and data mining

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Elements of Artificial Neural Networks Kishan Mehrotra,Chilukuri K. Mohan,Sanjay Ranka,1997 Elements of Artificial Neural Networks provides a clearly organized general introduction focusing on a broad range of algorithms for students and others who want to use neural networks rather than simply study them The authors who have been developing and team teaching the material in a one semester course over the past six years describe most of the basic neural network models with several detailed solved examples and discuss the rationale and advantages of the models as well as their limitations The approach is practical and open minded and requires very little mathematical or technical background Written from a computer science and statistics point of view the text stresses links to contiguous fields and can easily serve as a first course for students in economics and management The opening chapter sets the stage presenting the basic concepts in a clear and objective way and tackling important yet rarely addressed questions related to the use of neural networks in practical situations Subsequent chapters on supervised learning single layer and multilayer networks unsupervised learning and associative models are structured around classes of problems to which networks can be applied Applications are discussed along with the algorithms A separate chapter takes up optimization methods The most frequently used algorithms such as backpropagation are introduced early on right after perceptrons so that these can form the basis for initiating course projects Algorithms published as late as 1995 are also included All of the algorithms are presented using block structured pseudo code and exercises are provided throughout Software implementing many commonly used neural network algorithms is available at the book s website Transparency masters including abbreviated text and figures for the entire book are available for instructors using the text

Artificial Neural Network Modelling Subana Shanmuganathan,Sandhya Samarasinghe,2016-02-03 This book covers theoretical aspects as well as recent innovative applications of Artificial Neural networks ANNs in natural environmental biological social industrial and automated systems It presents recent results of ANNs in modelling small large and complex systems under three categories namely 1 Networks Structure Optimisation

Robustness and Stochasticity 2 Advances in Modelling Biological and Environmental Systems and 3 Advances in Modelling Social and Economic Systems The book aims at serving undergraduates postgraduates and researchers in ANN computational modelling

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