

Yide Ma  
Kun Zhan  
Zhaobin Wang

# Applications of Pulse-Coupled Neural Networks

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# Applications Of Pulse Coupled Neural Networks

**Thomas Lindblad, Jason M. Kinser**



## **Applications Of Pulse Coupled Neural Networks:**

**Applications of Pulse-Coupled Neural Networks** Yide Ma,Kun Zhan,Zhaobin Wang,2011-09-02 Applications of Pulse Coupled Neural Networks explores the fields of image processing including image filtering image segmentation image fusion image coding image retrieval and biometric recognition and the role of pulse coupled neural networks in these fields This book is intended for researchers and graduate students in artificial intelligence pattern recognition electronic engineering and computer science Prof Yide Ma conducts research on intelligent information processing biomedical image processing and embedded system development at the School of Information Science and Engineering Lanzhou University China

*Applications of Pulse Coupled Neural Networks* Yide Ma,Kun Zhan,Zhaobin Wang,2010 *Image Processing using Pulse-Coupled Neural Networks* Thomas Lindblad,Jason M. Kinser,2013-05-13 Image processing algorithms based on the mammalian visual cortex are powerful tools for extraction information and manipulating images This book reviews the neural theory and translates them into digital models Applications are given in areas of image recognition foveation image fusion and information extraction The third edition reflects renewed international interest in pulse image processing with updated sections presenting several newly developed applications This edition also introduces a suite of Python scripts that assist readers in replicating results presented in the text and to further develop their own applications **Image Processing**

**using Pulse-Coupled Neural Networks** Thomas Lindblad,Jason M. Kinser,2013-04-17 Pulse coupled neural networks represent a new and exciting advance in image processing research When exposed to grey scale or colour images they produce a series of binary pulse images which allow the content of the image to be assessed much more accurately than from the original In this volume Thomas Lindblad and Jason Kinser provide a much needed introduction to the topic of PCNNs They review the theoretical foundations and then look at a number of image processing applications including segmentation edge extraction texture extraction object identification object isolation motion processing foveation noise suppression and image fusion They also look at the PCNNs ability to process logical arguments and at how to implement it in specialised hardware It will be of particular interest to researchers and practitioners working in image processing especially those involved with medical military or industrial applications It will also be of interest to graduate level students *Neuronal Network Research Horizons* Martin L. Weiss,2007 In neuroscience a neural network is a bit of conceptual juggernaut the conceptual transition from neuroanatomy a rigorously descriptive discipline of observed structure to the designation of the parameters delimiting a network can be problematic In outline a neural network describes a population of physically interconnected neurons or a group of disparate neurons whose inputs or signalling targets define a recognisable circuit Communication between neurons often involves an electrochemical process The interface through which they interact with surrounding neurons usually consists of several dendrites input connections which are connected via synapses to other neurons and one axon output connection If the sum of the input signals surpasses a certain threshold the neuron sends an

action potential AP at the axon hillock and transmits this electrical signal along the axon This important book presents the latest research in this field     Engineering Applications of Neural Networks Valeri Mladenov,Chrisina Jayne,Lazaros Iliadis,2014-08-15 This volume constitutes the refereed proceedings of the 15th International Conference on Engineering Applications of Neural Networks EANN 2014 held in Sofia Bulgaria in September 2014 The 18 revised full papers presented together with 5 short papers were carefully reviewed and selected from 37 submissions The papers demonstrate a variety of applications of neural networks and other computational intelligence approaches to challenging problems relevant to society and the economy These include areas such as environmental engineering facial expression recognition classification with parallelization algorithms control of autonomous unmanned aerial vehicles intelligent transport flood forecasting classification of medical images renewable energy systems intrusion detection fault classification and general engineering

*Advances in Neural Network Research and Applications* Zhigang Zeng,Jun Wang,2010-05-10 This book is a part of the Proceedings of the Seventh International Symposium on Neural Networks ISNN 2010 held on June 6 9 2010 in Shanghai China Over the past few years ISNN has matured into a well established premier international symposium on neural networks and related fields with a successful sequence of ISNN series in Dalian 2004 Chongqing 2005 Chengdu 2006 Nanjing 2007 Beijing 2008 and Wuhan 2009 Following the tradition of ISNN series ISNN 2010 provided a high level international forum for scientists engineers and educators to present the state of the art research in neural networks and related fields and also discuss the major opportunities and challenges of future neural network research Over the past decades the neural network community has witnessed significant breakthroughs and developments from all aspects of neural network research including theoretical foundations architectures and network organizations modeling and simulation empirical studies as well as a wide range of applications across different domains The recent developments of science and technology including neuroscience computer science cognitive science nano technologies and engineering design among others has provided significant new understandings and technological solutions to move the neural network research toward the development of complex large scale and networked brain like intelligent systems This long term goals can only be achieved with the continuous efforts from the community to seriously investigate various issues on neural networks and related topics     Multi-Sensor Image Fusion and Its Applications Rick S. Blum,Zheng Liu,2018-10-03 Taking another lesson

from nature the latest advances in image processing technology seek to combine image data from several diverse types of sensors in order to obtain a more accurate view of the scene very much the same as we rely on our five senses Multi Sensor Image Fusion and Its Applications is the first text dedicated to the theory and practice of the registration and fusion of image data covering such approaches as statistical methods color related techniques model based methods and visual information display strategies After a review of state of the art image fusion techniques the book provides an overview of fusion algorithms and fusion performance evaluation The following chapters explore recent progress and practical applications of

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Neural Networks: Computational Models and Applications Huajin Tang,Kay Chen Tan,Zhang Yi,2007-03-12 Neural Networks Computational Models and Applications presents important theoretical and practical issues in neural networks including the learning algorithms of feed forward neural networks various dynamical properties of recurrent neural networks winner take all networks and their applications in broad manifolds of computational intelligence pattern recognition uniform approximation constrained optimization NP hard problems and image segmentation The book offers a compact insightful understanding of the broad and rapidly growing neural networks domain

*Neural Networks for Instrumentation, Measurement and Related Industrial Applications* Sergey Ablameyko,2003 This work aims to disseminate theoretical and practical knowledge about neural networks in measurement instrumentation and the related industrial applications It also creates a consciousness about the effectiveness of these techniques as well as the measurement problems in industrial environments

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Applications Of Pulse Coupled Neural Networks**

In some sort of inundated with monitors and the cacophony of fast conversation, the profound power and psychological resonance of verbal art usually diminish into obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, situated within the lyrical pages of **Applications Of Pulse Coupled Neural Networks**, a interesting work of literary beauty that pulses with organic thoughts, lies an wonderful trip waiting to be embarked upon. Written by a virtuoso wordsmith, this exciting opus books readers on a psychological odyssey, gently exposing the latent potential and profound influence stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is main subjects, dissect its interesting writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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