

# HUMAN FACE RECOGNITION USING THIRD-ORDER SYNTHETIC NEURAL NETWORKS

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# Human Face Recognition Using Third Order Synthetic Neural Networks

**David Lee Kuo Chuen, Robert H. Deng**



## **Human Face Recognition Using Third Order Synthetic Neural Networks:**

Human Face Recognition Using Third-Order Synthetic Neural Networks Okechukwu A. Uwechue, Abhijit S.

Pandya, 2012-10-12 Human Face Recognition Using Third Order Synthetic Neural Networks explores the viability of the application of High order synthetic neural network technology to transformation invariant recognition of complex visual patterns High order networks require little training data hence short training times and have been used to perform transformation invariant recognition of relatively simple visual patterns achieving very high recognition rates The successful results of these methods provided inspiration to address more practical problems which have grayscale as opposed to binary patterns e g alphanumeric characters aircraft silhouettes and are also more complex in nature as opposed to purely edge extracted images human face recognition is such a problem Human Face Recognition Using Third Order Synthetic Neural Networks serves as an excellent reference for researchers and professionals working on applying neural network technology to the recognition of complex visual patterns *Human Face Recognition Using Third-Order Synthetic Neural Networks* Okechukwu A. Uwechue, Abhijit S. Pandya, 2012-12-06 Human Face Recognition Using Third Order Synthetic Neural Networks explores the viability of the application of High order synthetic neural network technology to transformation invariant recognition of complex visual patterns High order networks require little training data hence short training times and have been used to perform transformation invariant recognition of relatively simple visual patterns achieving very high recognition rates The successful results of these methods provided inspiration to address more practical problems which have grayscale as opposed to binary patterns e g alphanumeric characters aircraft silhouettes and are also more complex in nature as opposed to purely edge extracted images human face recognition is such a problem Human Face Recognition Using Third Order Synthetic Neural Networks serves as an excellent reference for researchers and professionals working on applying neural network technology to the recognition of complex visual patterns **Intelligent Biometric Techniques in**

**Fingerprint and Face Recognition** L.C. Jain, U. Halici, I. Hayashi, S.B. Lee, Shigeyoshi Tsutsui, 2022-01-26 The tremendous world wide interest in intelligent biometric techniques in fingerprint and face recognition is fueled by the myriad of potential applications including banking and security systems and limited only by the imaginations of scientists and engineers This growing interest poses new challenges to the fields of expert systems neural networks fuzzy systems and evolutionary computing which offer the advantages of learning abilities and human like behavior Authored by a panel of international experts this book presents a thorough treatment of established and emerging applications and techniques relevant to this field **Emotion Recognition** Amit Konar, Aruna Chakraborty, 2015-01-27 A timely book containing foundations and current research directions on emotion recognition by facial expression voice gesture and biopotential signals This book provides a comprehensive examination of the research methodology of different modalities of emotion recognition Key topics of discussion include facial expression voice and biopotential signal based emotion recognition Special emphasis is given to

feature selection feature reduction classifier design and multi modal fusion to improve performance of emotion classifiers Written by several experts the book includes several tools and techniques including dynamic Bayesian networks neural nets hidden Markov model rough sets type 2 fuzzy sets support vector machines and their applications in emotion recognition by different modalities The book ends with a discussion on emotion recognition in automotive fields to determine stress and anger of the drivers responsible for degradation of their performance and driving ability There is an increasing demand of emotion recognition in diverse fields including psycho therapy bio medicine and security in government public and private agencies The importance of emotion recognition has been given priority by industries including Hewlett Packard in the design and development of the next generation human computer interface HCI systems Emotion Recognition A Pattern Analysis Approach would be of great interest to researchers graduate students and practitioners as the book Offers both foundations and advances on emotion recognition in a single volume Provides a thorough and insightful introduction to the subject by utilizing computational tools of diverse domains Inspires young researchers to prepare themselves for their own research Demonstrates direction of future research through new technologies such as Microsoft Kinect EEG systems etc

**Artificial Higher Order Neural Networks for Economics and Business** Zhang, Ming, 2008-07-31 This book is the first book to provide opportunities for millions working in economics accounting finance and other business areas education on HONNs the ease of their usage and directions on how to obtain more accurate application results It provides significant informative advancements in the subject and introduces the HONN group models and adaptive HONNs Provided by publisher

**Cognitive Engineering** Amit Konar, 2007-10-04 What we profoundly witness these days is a growing number of human centric systems and a genuine interest in a comprehensive understanding of their underlying paradigms and the development of solid and efficient design practices We are indeed in the midst of the next information revolution which very likely brings us into a completely new world of ubiquitous and invisible computing Ambient Intelligent AMI and wearable hardware This requires a totally new way of thinking in which cognitive aspects of design cognitive system engineering and distributed approach play a pivotal role This book fully addresses these timely needs by filling a gap between the two well established disciplines of cognitive sciences and cognitive systems engineering As we put succinctly in the preface with the psychological perspective of human cognition in mind the book explores the computational models of reasoning learning planning and multi agent coordination and control of the human moods This is an excellent up to the point description of the book The treatise is focused on the underlying fundamentals spans across a vast territory embracing logic perspectives of human cognition distributed models parallel computing expert systems and intelligent robotics

**Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies** Mago, Vijay Kumar, Bhatia, Nitin, 2011-12-31 The need for intelligent machines in areas such as medical diagnostics biometric security systems and image processing motivates researchers to develop and explore new techniques algorithms and applications in this evolving field Cross

Disciplinary Applications of Artificial Intelligence and Pattern Recognition Advancing Technologies provides a common platform for researchers to present theoretical and applied research findings for enhancing and developing intelligent systems Through its discussions of advances in and applications of pattern recognition technologies and artificial intelligence this reference highlights core concepts in biometric imagery feature recognition and other related fields along with their applicability

Soft Computing and Human-Centered Machines Z.-Q. Liu, S. Miyamoto, 2012-12-06 Computer Science Workbench is a monograph series which will provide you with an in depth working knowledge of current developments in computer technology Every volume in this series will deal with a topic of importance in computer science and elaborate on how you yourself can build systems related to the main theme You will be able to develop a variety of systems including computer software tools computer graphics computer animation database management systems and computer aided design and manufacturing systems Computer Science Work bench represents an important new contribution in the field of practical computer technology Tosiyasu L Kunii Preface With the advent of digital computers some five decades ago and the wide spread use of computer networks recently we have gained enormous power in gathering information and manufacturing Yet this increase in computing power has not given us freedom in a real sense we are increasingly enslaved by the very machine we built for gaining freedom and efficiency Making machines to serve mankind is an essential issue we are facing Building human centered systems is an imperative task for scientists and engineers in the new millennium The topic of human centered servant modules covers a vast area In our projects we have focused our efforts on developing theories and techniques based on fuzzy theories Chapters 2 to 12 in this book collectively deal with the theoretical methodological and applicational aspects of human centered systems Each chapter presents the most recent research results by the authors on a particular topic

**Emotional Intelligence** Aruna Chakraborty, Amit Konar, 2009-11-11 Emotional Intelligence is a new discipline of knowledge dealing with modeling recognition and control of human emotions The book Emotional Intelligence A Cybernetic Approach to the best of the authors knowledge is a first comprehensive text of its kind that provides a clear introduction to the subject in a precise and insightful writing style It begins with a philosophical introduction to Emotional Intelligence and gradually explores the mathematical models for emotional dynamics to study the artificial control of emotion using music and videos and also to determine the interactions between emotion and logic from the points of view of reasoning The later part of the book covers the chaotic behavior of existing emotions under certain conditions of emotional dynamics Finally the book attempts to cluster emotions using electroencephalogram signals and demonstrates the scope of application of emotional intelligence in several engineering systems such as human machine interfaces psychotherapy user assistance systems and many others The book includes ten chapters Chapter 1 provides an introduction to the subject from a philosophical and psychological standpoint It outlines the fundamental causes of emotion arousal and typical characteristics of the phenomenon of an emotive experience The relation between emotion and rationality of thoughts is also introduced

here Principles of natural regulation of emotions are discussed in brief and the biological basis of emotion arousal using an affective neu scientific model is introduced next

**Swarm, Evolutionary, and Memetic Computing** Bijaya Ketan Panigrahi, Ponnuthurai Nagarathnam Suganthan, Swagatam Das, Suresh Chandra Satapathy, 2011-12-07 Annotation This volume constitutes the refereed proceedings of the Second International Conference on Swarm Evolutionary and Memetic Computing SEMCCO 2011 held in Visakhapatnam India in December 2011 The 124 revised full papers presented in both volumes were carefully reviewed and selected from 422 submissions

Computational Intelligence Amit Konar, 2005-03-30 The book Computational Intelligence Principles Techniques and Applications presents both theories and applications of Computational Intelligence in a clear precise and highly comprehensive style The textbook addresses the fundamental aspects of Fuzzy Sets and Logic Neural Networks Evolutionary Computing and Belief Networks The application areas include Fuzzy Databases Fuzzy Control Image Understanding Expert Systems Object Recognition Criminal Investigation Telecommunication Networks and Intelligent Robots The book contains many numerical examples and homework problems with sufficient hints so that the students can solve them on their own Emerging areas of Computational Intelligence such as artificial life particle swarm optimization artificial immune systems fuzzy chaos theory rough sets and granular computing have also been addressed with examples in this book The book ends with a discussion on a number of open ended research problems in Computational Intelligence Graduate students interested to pursue their research in this subject will greatly be benefited with these problems

**Face Detection and Modeling for Recognition** Rein-Lien Hsu, 2002 Face recognition has received substantial attention from researchers in biometrics computer vision pattern recognition and cognitive psychology communities because of the increased attention being devoted to security man machine communication content based image retrieval and image video coding We have proposed two automated recognition paradigms to advance face recognition technology Three major tasks involved in face recognition systems are i face detection ii face modeling and iii face matching We have developed a face detection algorithm for color images in the presence of various lighting conditions as well as complex backgrounds Our detection method first corrects the color bias by a lighting compensation technique that automatically estimates the parameters of reference white for color correction We overcame the difficulty of detecting the low luma and high luma skin tones by applying a nonlinear transformation to the Y CbCr color space Our method generates face candidates based on the spatial arrangement of detected skin patches We constructed eye mouth and face boundary maps to verify each face candidate Experimental results demonstrate successful detection of faces with different sizes color position scale orientation 3D pose and expression in several photo collections 3D human face models augment the appearance based face recognition approaches to assist face recognition under the illumination and head pose variations For the two proposed recognition paradigms we have designed two methods for modeling human faces based on i a generic 3D face model and an individual s facial measurements of shape and texture captured in the frontal view and ii alignment of a

semantic face graph derived from a generic 3D face model onto a frontal face image      Handbook of Blockchain, Digital Finance, and Inclusion David Lee Kuo Chuen, Robert H. Deng, 2017-09-29 Handbook of Digital Finance and Financial Inclusion Cryptocurrency FinTech InsurTech Regulation ChinaTech Mobile Security and Distributed Ledger explores recent advances in digital banking and cryptocurrency emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and likely to dictate the future of finance The book not only emphasizes the financial opportunities made possible by digital banking such as financial inclusion and impact investing but also looks at engineering theories and developments that encourage innovation Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature A companion Volume Two of The Handbook of Digital Banking and Financial Inclusion ChinaTech Mobile Security Distributed Ledger and Blockchain emphasizes technological developments that introduce the future of finance Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow The combination of studies on blockchain technologies and applications regional financial inclusion movements advances in Chinese finance and security issues delivers a grand perspective on both changing industries and lifestyles Written for students and practitioners it helps lead the way to future possibilities Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance financial inclusion impact investing decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today      **Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1** David Lee Kuo Chuen, Robert H. Deng, 2017-08-03 Handbook of Blockchain Digital Finance and Inclusion Volume 1 Cryptocurrency FinTech InsurTech and Regulation explores recent advances in digital banking and cryptocurrency emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and will likely dictate the future of finance The volume not only emphasizes the financial opportunities made possible by digital banking such as financial inclusion and impact investing but it also looks at engineering theories and developments that encourage innovation Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature Explores recent advances in digital banking and cryptocurrency emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance financial inclusion impact investing decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today      **Computed Synchronization for Multimedia Applications** Charles B. Owen, Fillia Makedon, 2013-04-17 Multimedia is changing the design of database and information retrieval systems The accumulation of audio image and video

content is of little use in these systems if the content cannot be retrieved on demand a critical requirement that has led to the development of new technologies for the analysis and indexing of media data In turn these technologies seek to derive information or features from a data type that can facilitate rapid retrieval efficient compression and logical presentation of the data Significant work that has not been addressed however is the benefits of analyzing more than one data type simultaneously Computed Synchronization for Multimedia Applications presents a new framework for the simultaneous analysis of multiple media data objects The primary benefit of this analysis is computed synchronization a temporal and spatial alignment of multiple media objects Computed Synchronization for Multimedia Applications also presents several specific applications and a general structure for the solution of computed synchronization problems The applications demonstrate the use of this structure Two applications in particular are described in detail the alignment of text to speech audio and the alignment of simultaneous English language translations of ancient texts Many additional applications are discussed as future uses of the technology Computed Synchronization for Multimedia Applications is useful to researchers students and developers seeking to apply computed synchronization in many fields It is also suitable as a reference for a graduate level course in multimedia data retrieval

**Infrastructure for Electronic Business on the Internet** Veljko Milutinovic, 2012-12-06 Design is an art form in which the designer selects from a myriad of alternatives to bring an optimum choice to a user In many complex of optimum is difficult to define Indeed the users systems the notion themselves will not agree so the best system is simply the one in which the designer and the user have a congruent viewpoint Compounding the design problem are tradeoffs that span a variety of technologies and user requirements The electronic business system is a classically complex system whose tradeoff criteria and user views are constantly changing with rapidly developing underlying technology Professor Milutinovic has chosen this area for his capstone contribution to the computer systems design This book completes his trilogy on design issue in computer systems His first work Surviving the Design of a 200 MHz RISC Microprocessor 1997 focused on the tradeoffs and design issues within a processor His second work Surviving the Design of Microprocessor and Multiprocessor Systems 2000 considers the design issues involved with assembling a number of processors into a coherent system Finally this book generalizes the system design problem to electronic commerce on the Internet a global system of immense consequence

*Electronic Business and Education* Wendy Chin, Frederic\*accents Patricelli, V. Milutinovic, 2012-12-06 In order to establish technical prerequisites for efficient electronic business and education on the Internet appropriate system support is needed as a vital condition for maximization of both short term and long term profits Electronic Business and Education Recent Advances in Internet Infrastructures discusses current research topics in the domain of system support for e business and e education on the Internet and stresses the synergistic interaction of these two components Attention is given to both scientific and engineering issues Electronic Business and Education Recent Advances in Internet Infrastructures is suitable as a secondary text for a graduate level course and as a reference for



researchers and practitioners in industry particularly in the area of e business and e education on the Internet There is no longer any question that the Internet and electronic communication are the major new tools for collaborative advances in the creation of new knowledge and in future learning Excerpt from Foreword by Robert C Richardson Nobel Laureate 1996 Cornell University USA      Content-Based Image and Video Retrieval Oge Marques,Borko Furht,2012-12-06 Content Based Image And Video Retrieval addresses the basic concepts and techniques for designing content based image and video retrieval systems It also discusses a variety of design choices for the key components of these systems This book gives a comprehensive survey of the content based image retrieval systems including several content based video retrieval systems The survey includes both research and commercial content based retrieval systems Content Based Image And Video Retrieval includes pointers to two hundred representative bibliographic references on this field ranging from survey papers to descriptions of recent work in the area entire books and more than seventy websites Finally the book presents a detailed case study of designing MUSE a content based image retrieval system developed at Florida Atlantic University in Boca Raton Florida      **Shape Analysis and Retrieval of Multimedia Objects** Maytham H. Safar,Cyrus Shahabi,2012-12-06 Shape Analysis and Retrieval of Multimedia Objects provides a comprehensive survey of the most advanced and powerful shape retrieval techniques used in practice today In addition this monograph addresses key methodological issues for evaluation of the shape retrieval methods Shape Analysis and Retrieval of Multimedia Objects is designed to meet the needs of practitioners and researchers in industry and graduate level students in Computer Science      **Multimedia Technologies and Applications for the 21st Century** Borko Furht,1997-11-30 Multimedia Technologies and Applications for the 21st Century Visions of World Experts presents contributions from leading researchers and experts describing their current research and their views of the future trends in the field The book consists of thirteen chapters in five parts These chapters tackle a number of critical issues in distributed multimedia systems and applications from VLSI processors that support multimedia and multimedia servers through multimedia databases and multimedia networks and communications to merging multimedia applications Only a few years ago multimedia seemed like a brand new research field and an emerging new industry Today at the edge of the 21st century multimedia research is coming of age and the multimedia industry has significantly grown with the total market estimated to be about 50 billion Several years ago it was felt that the digital media revolution had just started however the seeds had been sown long before Fundamental technologies such as interactive laser disks video games and electronic encyclopedias were invented in the 1970s and 80s They represented the seeds for current hot applications such as digital libraries video on demand interactive television and videoconferencing Another aspect of the digital media revolution is the formation of a new media industry composed of computer entertainment communication and consumer electronics companies Many industry segments are currently involved in creating new products and services positioning themselves for the 21st century They include telephone cable and satellite TV companies communication

equipment companies TV and radio broadcasters on line Internet service providers cable channels movie studios record companies book publishers CD ROM title creators Internet tool vendors multimedia software tools companies computer companies general software tools companies computer add on vendors semiconductor vendors and consumer electronics vendors Multimedia Technologies and Applications for the 21st Century Visions of World Experts should stimulate the curiosity of its readers and inspire new technological breakthroughs in this exciting field It serves as a valuable reference for system designers engineers programmers and managers who are involved in multimedia systems the Internet and their applications This book can also be used as a textbook for advanced courses on multimedia in engineering curricula

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