

Magnetic inductive phase shift: a new method to differentiate hemorrhagic stroke from ischemic stroke on rabbit

Qingguang Yan, Gui Jin, Ke Ma, Mingxin Qin, Wei Zhuang, and Jian Sun

Abstract—Background: The major therapy for ischemic stroke is thrombolytic treatment, but severe consequences occur when this method is used to treat hemorrhagic stroke. Currently, computed tomography and magnetic resonance imaging are used to differentiate between two types of stroke, but these two methods are ineffective for pre-hospital care.

Methods: We developed a new brain diagnostic device for rabbits based on electromagnetic induction to non-invasively differentiate two types of stroke. The device includes two coils and a phase difference measurement system that detects the magnetic inductive phase shift (MIPS) value to reflect the tissue's condition. The hemorrhage model was established through the injection of autologous blood into the internal capsule of a rabbit's brain. Ischemia was induced in the brain of a rabbit by bilateral carotid artery occlusion. Two types of animal models were measured with our device.

Results: The MIPS value gradually decreased with increasing injected blood and increased with ischemia time. The MIPS changes induced by the two types of strokes were exact opposites, and the absolute values of MIPS variation in the hemorrhagic and the ischemic groups were significantly larger than those of the normal control group ($P > 0.05$).

Conclusions: The tested technique can differentiate ischemic stroke from hemorrhagic stroke on rabbit brain in a non-invasive, continuous, and bulk monitoring manner by using a simple and inexpensive apparatus.

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Index Terms—Magnetic inductive phase shift (MIPS), Hemorrhagic stroke, Ischemic stroke

I. BACKGROUND

Stroke can be classified into two kinds, namely, hemorrhagic and ischemic. The incidence rate of this medical condition continuously increases with the aging of the global population and the intensification of social pressure. The latest statistics issued by the Ministry of Health of the People's Republic of China reveal that stroke is the first cause of death among all diseases in China, and its standardized mortality

rate in the country ranks first in the world. Besides, such a mortality rate continues to increase at a yearly rate of 9%. Approximately 2 million people suffer a stroke each year. Among this population, nearly half die, and roughly 3/4 of the survivors experience varying degrees of disability. Stroke has brought severe economic burdens to China and its people, and this situation emphasizes the urgency for the prevention and control of such a medical condition [1]. Ischemic stroke (obstruction of blood flow) accounts for nearly 80% of all stroke cases, and hemorrhagic stroke (bleeding into brain or on the surface of the brain) accounts for the remaining 20% [2]. The early thrombolytic treatment of ischemic stroke is an established procedure today, but it could be disastrous when performed on patients with hemorrhagic stroke [3], [4], [5]. At present, computed tomography (CT) and magnetic resonance imaging (MRI) are used to differentiate hemorrhagic stroke from ischemic stroke. The early use of thrombolytic therapy immediately after the onset of ischemic symptoms could produce satisfactory outcomes [6]. However, such a treatment is not advised to be adopted beyond 4.5 h after the onset of such symptoms because its potential benefits do not outweigh the risk of hemorrhagic complications, which increase with time. The majority of the time after the onset of ischemic symptoms is wasted in transport to and from the diagnostic instruments and in imaging test; thus, only 1–8% of the entire stroke population is given such treatment [7]. This clinical challenge urges the development of new and simple pre-hospital methods that can distinguish between ischemic and hemorrhagic strokes from each other.

Several technologies for distinguishing ischemic from hemorrhagic stroke have been developed over the years. Doppler ultrasonography can accurately identify the states of the cerebral artery (e.g., stenosis, obstruction, convulsion, or ischemia), but it cannot exclude hemorrhagic transformation from the resulting ischemic regions [8]. Electrical impedance tomography (EIT) has been proposed as a possible technology to detect intracerebral hemorrhage (ICH) in an animal model [9] and impedance spectroscopy has been suggested as a method to detect stroke related brain asymmetries in men [10]. However, EIT requires the injection of current through an electrode-skull contact that could reduce the detection precision [11]. Besides, the current is difficult to pass the super-high resistivity skull and may therefore severely reduce the imaging quality [11]. The near-infrared spectroscopy (NIRS) detects hemorrhagic stroke because the hemoglobin absorbs more near-infrared light than other tissues. In a previous

Qingguang Yan is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China.

Ke Ma is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China.

Mingxin Qin is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China, e-mail: qingxin@tmmu.com.

Wei Zhuang is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China.

Gui Jin is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China.

Jian Sun is with College of Biomedical Engineering, Third Military Medical University, 400030, Chongqing, China.

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Alexander Mamishev,Murray Sargent,2014-11-04 Research fuels innovation and with this focused guide to Microsoft Word you can help increase your team s collaborative power and effectiveness and bring new research to life Writing proposals reports journal articles theses and other technical documents as a team poses unique challenges not the least of which is consistent presentation and voice You must also manage the formatting and accuracy of figures equations and citations and comply with the style rules of external publications In this book you ll learn from the authors extensive experience managing the authoring and publication of technical content and gain specific practices and templates you can apply right away Focuses on the unique challenges of writing and producing documents in an academic or commercial R D setting Demonstrates how to use Microsoft Word to increase the quality of collaborative document preparation including formatting editing citations management commenting and version control Includes downloadable templates that help automate creation of scientific documents Offers best practices guidance for writing in teams and writing in the scientific genre **Research Methodology and Intellectual Property Rights** Dr. Jalumedi Babu,2024-06-12 Research methodology and IPR are the best book for higher studies and its common subject for all the branches and its very important subject to pursue higher studies

To know how to do research and how to write a thesis

Handbook Of Pattern Recognition And Computer Vision (4th Edition) Chi Hau Chen, 2009-10-09 Both pattern recognition and computer vision have experienced rapid progress in the last twenty five years This book provides the latest advances on pattern recognition and computer vision along with their many applications It features articles written by renowned leaders in the field while topics are presented in readable form to a wide range of readers The book is divided into five parts basic methods in pattern recognition basic methods in computer vision and image processing recognition applications life science and human identification and systems and technology There are eight new chapters on the latest developments in life sciences using pattern recognition as well as two new chapters on pattern recognition in remote sensing

Multi-Modal Human Modeling, Analysis and Synthesis Jun Yu, Changwei Luo, Chang Wen Chen, 2025-10-21 In today's world where intelligent technologies are deeply transforming human computer interaction and virtual reality multi modal human modeling analysis and synthesis have become central topics in computer vision As application scenarios grow increasingly complex new technologies continue to emerge to address these challenges These techniques demand systematic summarization and practical guidance To meet this need Multi Modal Human Modeling Analysis and Synthesis aims to adopt a structured perspective building a comprehensive technical framework for multi modal human modeling analysis and synthesis progressing from local details to holistic perspectives and from face features to body dynamics This book begins by examining the anatomy structures and characteristics of human faces and bodies then analyzes how traditional methods and deep learning approaches provide robust optimization solutions for modeling For example it explores how to address challenges in face recognition caused by lighting changes occlusions face expressions and aging as well as methods for body localization reconstruction recognition and anomaly detection in multi modal scenarios It also explains how multi modal data can drive realistic face and body synthesis A standout feature is its focus on Huawei's MindSpore framework bridging the gap between algorithms and engineering through practical case studies From building face detection and recognition pipelines with the MindSpore toolkit to accelerating model training via automatic parallel computing and solving large language model LLM training challenges each step is supported by reproducible code and design logic Designed for researchers and engineers in computer vision and AI this book balances theoretical foundations with industry ready technical details Whether you aim to enhance the reliability of biometric recognition explore creative possibilities in virtual real interactions or optimize the deployment of deep learning frameworks this guide serves as an essential link between academic advancements and real world applications

Research Methodology & Intellectual Property Rights : Basic and Fundamental Aspects Dr. A Chrispin Jiji, Dr. Y. R. Annie Bessant, Dr. S. Vanaja, Dr. J. Grace Jency, 2024-09-09 The book Research Methodology and IPR is strictly based on the syllabus prescribed by V T U mainly for the students of 5TH semester B E common for all branches It covers the both research methodology and IPR This book deals with 5 Modules The first module deals with the Engineering research and ethics The second module gives detailed

information about literature review and Technical reading as well as attributions and citations The third module deals with the patents The fourth module gives detailed information about copyright and Trademarks The fifth module deals with Industrial Design Geographical indications and few case studies

Cellular Neural Networks and Analog VLSI Leon Chua, Glenn Gulak, Edmund Pierzchala, Ángel Rodríguez-Vázquez, 2013-03-09 Cellular Neural Networks and Analog VLSI brings together in one place important contributions and up to date research results in this fast moving area Cellular Neural Networks and Analog VLSI serves as an excellent reference providing insight into some of the most challenging research issues in the field

Proceedings of the International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) Suresh Chandra Satapathy, Siba K. Udgata, Bhabendra Narayan Biswal, 2012-12-14 The volume contains the papers presented at FICTA 2012 International Conference on Frontiers in Intelligent Computing Theory and Applications held on December 22-23, 2012 in Bhubaneswar engineering College Bhubaneswar Odisha India It contains 86 papers contributed by authors from the globe These research papers mainly focused on application of intelligent techniques which includes evolutionary computation techniques like genetic algorithm particle swarm optimization techniques teaching learning based optimization etc for various engineering applications such as data mining image processing cloud computing networking etc

Human Gait, 2024-06-05 This book introduces the reader to the deeper details of the human gait process To this end it takes a multidisciplinary approach covering all the fields involved in the gait pattern biomechanics neuroscience and even technology from the point of view of detecting anomalies and improving them From the basics of walking to the latest scientific advances the aim is to bring together the knowledge of experts in the field to provide a multidisciplinary view of this area of study The target audience for this book is not only the scientific community but also clinicians and readers interested in unlocking the secrets of the walking process Through this book readers will discover how in depth knowledge of human gait can change their perception of rehabilitation sports performance or even their own everyday mobility On behalf of the editors of this book we recommend that you take a look at all that Human Gait Recent Findings and Research has to offer The works contained in this book are the result of careful selection and evaluation making this book an essential resource for those who want to learn about the human gait pattern

Intelligent Control Systems with an Introduction to System of Systems Engineering Thrishantha Nanayakkara, Ferat Sahin, Mo Jamshidi, 2018-09-03 From aeronautics and manufacturing to healthcare and disaster management systems engineering SE now focuses on designing applications that ensure performance optimization robustness and reliability while combining an emerging group of heterogeneous systems to realize a common goal Use SoS to Revolutionize Management of Large Organizations Factories and Systems Intelligent Control Systems with an Introduction to System of Systems Engineering integrates the fundamentals of artificial intelligence and systems control in a framework applicable to both simple dynamic systems and large scale system of systems SoS For decades NASA has used SoS methods and major manufacturers including Boeing Lockheed

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Developing a Keyword Extractor and Document Classifier: Emerging Research and Opportunities Paul, Dimple Valayil, 2021-01-08 The main problems that prevent fast and high quality document processing in electronic document management systems are insufficient and unstructured information information redundancy and the presence of large amounts of undesirable user information The human factor has a significant impact on the efficiency of document search An average user is not aware of the advanced option of a query language and uses typical queries Development of a specialized software toolkit intended for information systems and electronic document management systems can be an effective solution of the tasks listed above Such toolkits should be based on the means and methods of automatic keyword extraction and text classification The categorization or classification of texts into predefined categories has witnessed a booming interest in the last 10 years due to the increased availability of documents in digital form and the ensuing need to organize them Thus research on keyword extraction advancements in the field and possible future solutions is of great importance in current times Developing a Keyword Extractor and Document Classifier Emerging Research and Opportunities presents an information extraction mechanism that can process many kinds of inputs realize the type of text and understand the percentage of the keywords that has to be stored This mechanism then supports information extraction and information categorization mechanisms This module is used to support a text summarization mechanism which leads with the help of the keyword extraction module to text categorization It employs lexical and information retrieval techniques to extract phrases from the document text that are likely to characterize it and determines the category of the retrieved text to present a summary to the users This book is ideal for practitioners stakeholders researchers academicians and students who are interested in the development of a new keyword extractor and document classifier method

CAA2016: Oceans of Data Mieko Matsumoto, Espen Uleberg, 2018-12-31 A selection of 50 papers presented at CAA2016 Papers are grouped under the following headings Ontologies and Standards Field and

Laboratory Data Recording and Analysis Archaeological Information Systems GIS and Spatial Analysis 3D and Visualisation Complex Systems Simulation Teaching Archaeology in the Digital Age Intelligent Multimedia Technologies for Networking Applications: Techniques and Tools Kanellopoulos, Dimitris, 2013-01-31 As ubiquitous multimedia applications benefit from the rapid development of intelligent multimedia technologies there is an inherent need to present frameworks techniques and tools that adopt these technologies to a range of networking applications Intelligent Multimedia Technologies for Networking Applications Techniques and Tools promotes the discussion of specific solutions for improving the quality of multimedia experience while investigating issues arising from the deployment of techniques for adaptive video streaming This reference source provides relevant theoretical frameworks and leading empirical research findings and is suitable for practitioners and researchers in the area of multimedia technology *Motion Planning* Xj Jing, 2008-06-01 In this book new results or developments from different research backgrounds and application fields are put together to provide a wide and useful viewpoint on these headed research problems mentioned above focused on the motion planning problem of mobile robots These results cover a large range of the problems that are frequently encountered in the motion planning of mobile robots both in theoretical methods and practical applications including obstacle avoidance methods navigation and localization techniques environmental modelling or map building methods and vision signal processing etc Different methods such as potential fields reactive behaviours neural fuzzy based methods motion control methods and so on are studied Through this book and its references the reader will definitely be able to get a thorough overview on the current research results for this specific topic in robotics The book is intended for the readers who are interested and active in the field of robotics and especially for those who want to study and develop their own methods in motion path planning or control for an intelligent robotic system Cellular Neural Networks and Visual Computing Leon O. Chua, Tamas Roska, 2002-05-30 Cellular Nonlinear neural Network CNN technology is both a revolutionary concept and an experimentally proven new computing paradigm Analogic cellular computers based on CNNs are set to change the way analog signals are processed and are paving the way to an analog computing industry This unique undergraduate level textbook includes many examples and exercises including CNN simulator and development software accessible via the Internet It is an ideal introduction to CNNs and analogic cellular computing for students researchers and engineers from a wide range of disciplines Although its prime focus is on visual computing the concepts and techniques described in the book will be of great interest to those working in other areas of research including modeling of biological chemical and physical processes Leon Chua co inventor of the CNN and Tam s Roska are both highly respected pioneers in the field **Zero-Trust Learning** Chetna Kaushal, Amandeep Kaur, Mohit Angurala, Aryan Chaudhary, 2025-09-23 In this internet age of security challenges and threats from cybercrime enhanced security measures are necessary The zero trust model the IT security model that requires strict identity verification for every person and device trying to access resources on a private network helps to meet these everincreasing and evolving

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Peruzzini,M. Pellicciari,C. Bil,2018-09-14 The concept of concurrent engineering CE was first developed in the 1980s Now often referred to as transdisciplinary engineering it is based on the idea that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP The main goal of CE is to increase the efficiency and effectiveness of the PCP and reduce errors in later phases as well as incorporating considerations including environmental implications for the full lifecycle of the product It has become a substantive methodology in many industries and has also been adopted in the development of new services and service support This book presents the proceedings of the 25th ISPE Inc International Conference on Transdisciplinary Engineering held in Modena Italy in July 2018 This international conference attracts researchers industry experts students and government representatives interested in recent transdisciplinary engineering research advancements and applications The book contains 120 peer reviewed papers selected from 259 submissions from all continents of the world ranging from the theoretical and conceptual to papers addressing industrial best practice and is divided into 11 sections reflecting the themes addressed in the conference program and addressing topics as diverse as industry 4 0 and smart manufacturing human centered design modeling simulation and virtual design and knowledge and data management among others With an overview of the latest research results product creation processes and related methodologies this book will be of interest to researchers design practitioners and educators alike *Communication and Computing Systems* B.M.K. Prasad,Krishna Kant Singh,Neelam Ruhil,Karan Singh,Richard

O'Kennedy,2017-02-15 This book is a collection of accepted papers that were presented at the International Conference on Communication and Computing Systems ICCCS 2016 Dronacharya College of Engineering Gurgaon September 9 11 2016 The purpose of the conference was to provide a platform for interaction between scientists from industry academia and other areas of society to discuss the current advancements in the field of communication and computing systems The papers submitted to the proceedings were peer reviewed by 2 3 expert referees This volume contains 5 main subject areas 1 Signal and Image Processing 2 Communication Computer Networks 3 Soft Computing Intelligent System Machine Vision and Artificial Neural Network 4 VLSI Embedded System 5 Software Engineering and Emerging Technologies Ultra Wideband Wireless Communication Huseyin Arslan,Zhi Ning Chen,Maria-Gabriella Di Benedetto,2006-10-13 ULTRA WIDEBAND WIRELESS COMMUNICATION AN INTERNATIONAL PANEL OF EXPERTS PROVIDE MAJOR RESEARCH ISSUES AND A

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