

"LUNG CANCER DETECTION USING IMAGE PROCESSING TECHNIQUES"

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Abstract – As per the technical evolution and latest trend taken into consideration, we have decided to make research over biomedical term i.e. Lungs cancer detection. Recently, image processing techniques are widely used in several medical areas for image improvement in earlier detection and treatment stages. There are various types of cancers i.e. lungs cancer, Breast cancer, blood cancer, throat cancer, brain cancer, tongue cancer, mouth cancer etc. Lung cancer is a disease of abnormal cells multiplying and growing into a tumor. Cancer cells can be carried away from the lungs in blood, or lymph fluid that surrounds lung tissue. In this project we access cancer image into MATLAB collected from different hospitals where present work is going on and this available image was color image we have access that image into MATLAB and followed conversion. Image quality and accuracy is the core factors of this research, image quality assessment as well as improvement are depending on the enhancement stage where low pre-processing techniques is used based on Gabor filter within Gaussian rules. The segmentation and enhancement procedure is used to obtain the feature extraction of normal and abnormal image. Relying on general features, a normality comparison is made. In this research, the main detected features for accurate images comparison are pixels percentage and mask-labelling.

Key Words: Enhancement, Segmentation, Feature extraction, Binarization, Filtering etc.

1.INTRODUCTION –

Lung cancer is of disease of abnormal cells multiplying and growing into a tumor. Cancer cells can be carried away from the lungs in blood, or lymph fluid that surrounds lung tissue. Lymph flows through lymphatic vessels, which drain into lymph nodes located in the lungs and in the centre of the chest. Lung cancer often spreads toward the centre of the chest because the natural flow of lymph out of the lung is towards the centre of the chest. Metastasis occurs when a cancer cell leaves the site where it began and moves into a lymph node or to another part of the body through the blood streams. Cancer that starts in the lung is called a primary lung cancer. There are various types of lung cancer such as Carcinoma, Adenocarcinoma and Squamous cell carcinomas. The rank order of cancers for both males and females among Jordanians in 2008 indicated that were 356 cases of lung cancer accounting for (7.7%) of all newly diagnosed cancer cases in 2008. Lung cancer affected 297 (13.1%) males and 59 (2.5%) females with a male to female ratio of 5:1 with a lung cancer ranked second among males and 10th among

females. It consists of few stages. The first stage starts with taking a collection of CT images (normal and abnormal) from the available database from IMBA home. The second stage applies the several techniques of image enhancement, to get a best level of quality of clearness. The third stage applies image segmentation algorithms which play a effective role in image processing stages, and the fourth stage obtains the general features from enhanced segmented image which gives indicator of normality or abnormality of images. Lung cancer is the most dangerous and widespread cancer in the world according to stage of discovery of the cancer cells in the lungs, so the process early detection of the disease plays a very important and essential role to avoid the serious advance stages to reduce its percentage of distribution.

1.1 Objective

- (a) To study the medical image processing under the concepts of MATLAB
- (b) Enhancement of image using Gabor filter
- (c) Image segmentation using Marker-Controlled Watershed Segmentation Approach
- (d) Obtain the general features of the enhanced segmented image using Binarization.

1.2 Flow Chart

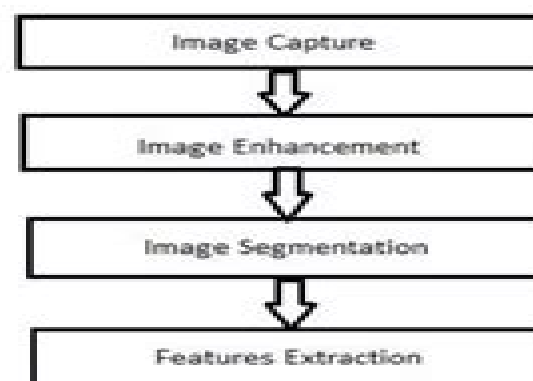


Figure 1.2 Lung cancer image processing Stages

Lung Cancer Detection Using Image Processing Techniques

**Ambeth Kumar Visvam
Devadoss, Malathi
Subramanian, Valentina Emilia
Balas, Fadi Al Turjman, Ramakrishnan
Malaichamy**

Lung Cancer Detection Using Image Processing Techniques:

Signal and Image Processing Techniques for the Development of Intelligent Healthcare Systems E. Priya,V. Rajinikanth,2020-09-21 This book comprehensively reviews the various automated and semi automated signal and image processing techniques as well as deep learning based image analysis techniques used in healthcare diagnostics It highlights a range of data pre processing methods used in signal processing for effective data mining in remote healthcare and discusses pre processing using filter techniques noise removal and contrast enhanced methods for improving image quality The book discusses the status quo of artificial intelligence in medical applications as well as its future Further it offers a glimpse of feature extraction methods for reducing dimensionality and extracting discriminatory information hidden in biomedical signals Given its scope the book is intended for academics researchers and practitioners interested in the latest real world technological innovations Proceedings of Third International Conference on Computing, Communications, and Cyber-Security Pradeep Kumar Singh, Sławomir T. Wierzchoń, Sudeep Tanwar, Joel J. P. C. Rodrigues, Maria Ganzha, 2022-07-02 This book features selected research papers presented at the Third International Conference on Computing Communications and Cyber Security IC4S 2021 organized in Krishna Engineering College KEC Ghaziabad India along with Academic Associates Southern Federal University Russia IAC Educational India and ITS Mohan Nagar Ghaziabad India during October 30 31 2021 It includes innovative work from researchers leading innovators and professionals in the area of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues **Proceedings of International Conference on Intelligent Vision and Computing (ICIVC 2022)** Harish Sharma, Apu Kumar Saha, Mukesh Prasad, 2023-04-30 The conference proceedings book is a collection of high quality research articles in the field of intelligent vision and computing It also serves as a forum for researchers and practitioners from both academia and industry to meet and share their expertise and experience It provides opportunities for academicians and scientists along with professionals policymakers and practitioners from various fields in a global realm to present their research contributions and views on one forum and interact with members inside and outside their own particular disciplines **Intelligent Systems Design and Applications** Ajith Abraham, Niketa Gandhi, Thomas Hanne, Tzung-Pei Hong, Tatiane Nogueira Rios, Weiping Ding, 2022-03-26 This book highlights recent research on intelligent systems and nature inspired computing It presents 132 selected papers from the 21st International Conference on Intelligent Systems Design and Applications ISDA 2021 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 34 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering **Research Anthology on Improving Medical Imaging**

Techniques for Analysis and Intervention Management Association, Information Resources, 2022-09-09 Medical imaging provides medical professionals the unique ability to investigate and diagnose injuries and illnesses without being intrusive. With the surge of technological advancement in recent years, the practice of medical imaging has only been improved through these technologies and procedures. It is essential to examine these innovations in medical imaging to implement and improve the practice around the world. The Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention investigates and presents the recent innovations, procedures, and technologies implemented in medical imaging. Covering topics such as automatic detection, simulation in medical education, and neural networks, this major reference work is an excellent resource for radiologists, medical professionals, hospital administrators, medical educators, and students, librarians, researchers, and academicians.

Intelligent Systems Amit Sheth, Amit Sinhal, Abhinav Shrivastava, Amit Kumar Pandey, 2021-07-21 This book contains the latest computational intelligence methodologies and applications. This book is a collection of selected papers presented at the International Conference on Sustainable Computing and Intelligent Systems (SCIS 2021) held in Jaipur, India, during February 5-6, 2021. It includes novel and innovative work from experts, practitioners, scientists, and decision makers from academia and industry. It covers selected papers in the area of artificial intelligence and intelligent systems, intelligent business systems, machine intelligence, computer vision, Web intelligence, big data analytics, swarm intelligence, and related topics.

Knowledge Modelling and Big Data Analytics in Healthcare Mayuri Mehta, Kalpdrum Passi, Indranath Chatterjee, Rajan Patel, 2021-12-08 Knowledge Modelling and Big Data Analytics in Healthcare: Advances and Applications focuses on automated analytical techniques for healthcare applications used to extract knowledge from a vast amount of data. It brings together a variety of different aspects of the healthcare system and aids in the decision-making processes for healthcare professionals. The editors connect four contemporary areas of research rarely brought together in one book: artificial intelligence, big data analytics, knowledge modelling, and healthcare. They present state-of-the-art research from the healthcare sector, including research on medical imaging, healthcare analysis, and the applications of artificial intelligence in drug discovery. This book is intended for data scientists, academicians, and industry professionals in the healthcare sector.

Artificial Intelligence of Things Rama Krishna Challa, Gagangeet Singh Aujla, Lini Mathew, Amod Kumar, Mala Kalra, S. L. Shimi, Garima Saini, Kanika Sharma, 2023-12-02 These two volumes constitute the revised selected papers of the First International Conference (ICAIoT 2023) held in Chandigarh, India, during March 30-31, 2023. The 47 full papers and the 10 short papers included in this volume were carefully reviewed and selected from 401 submissions. The two books focus on research issues, opportunities, and challenges of AI and IoT applications. They present the most recent innovations, trends, and concerns, as well as practical challenges encountered and solutions adopted in the fields of AI algorithms, implementation in IoT systems.

A Practitioner's Approach to Problem-Solving using AI Satvik Vats, Vikrant Sharma, Dibyahash Bordoloi, Satya Prakash Yadav, 2024-10-18 This book demonstrates several use cases of how

artificial intelligence AI and machine learning ML are revolutionizing problem solving across various industries The book presents 18 edited chapters beginning with the latest advancements in human AI interactions and neuromorphic computing setting the stage for practical applications Chapters focus on AI and ML applications such as fingerprint recognition glaucoma detection and lung cancer identification using image processing The book also explores the role of AI in professional operations such as UX design event detection and content analysis Additionally the book includes content that examines AI s impact on technical operations wireless communication VLSI systems and advanced manufacturing processes Each chapter contains summaries and references for addressing the needs of beginner and advanced readers This comprehensive guide is an essential resource for anyone seeking to understand AI s transformative role in modern problem solving in professional industries

Drug Discovery and Telemedicine Saurav Mallik,Zubair Rahaman,Soumita Seth,Anjan Bandyopadhyay,Sujata Swain,Somenath Chakraborty,2025-09-22 Our proposed book emerges in response to the critical need for an interdisciplinary resource that encapsulates the burgeoning role of artificial intelligence AI in reshaping drug discovery and telemedicine As these sectors witness transformative changes driven by AI technologies there s a pressing demand for a comprehensive guide that navigates through these advancements offering insights methodologies and practical applications to professionals at the forefront of healthcare and pharmaceutical research At its core the book delves into the intricate ways in which AI and machine learning algorithms are being harnessed to streamline the drug development process from initial discovery through to clinical trials and how these technologies are concurrently revolutionizing the delivery of healthcare services via telemedicine Specific focus areas include the application of deep learning in identifying novel drug candidates AI driven predictive models for pharmacokinetics and pharmacodynamics automation in laboratory research and the integration of AI in diagnostic processes personalized medicine and patient monitoring systems Each chapter not only explores current state of the art methodologies and case studies but also critically examines challenges such as data privacy ethical considerations and the need for robust interpretable models that can be trusted by healthcare professionals and patients alike Furthermore the book places a strong emphasis on the synergistic potential of combining AI with telemedicine illustrating how these technologies can expand access to healthcare improve the accuracy of remote diagnoses and enable continuous data driven patient care By providing a panoramic view of current trends technological innovations and future directions the book aims to serve as a pivotal reference for scientists researchers clinicians and policymakers involved in drug discovery and healthcare delivery In conclusion this book stands as an essential compendium for specialists seeking to navigate the complexities and harness the opportunities presented by AI in the pharmaceutical and healthcare industries It offers a critical in depth exploration of the transformative impact of AI technologies underscoring their relevance and potential to dramatically enhance drug discovery and telemedicine practices This publication not only equips its target audience with the knowledge to lead innovation in their fields but also engages with the broader ethical

social and practical implications of AI making it an invaluable resource for advancing towards more effective efficient and accessible healthcare solutions The book is significant for several reasons Interdisciplinary Appeal It serves as a critical resource for professionals and researchers across the fields of computer science pharmaceutical sciences and healthcare facilitating a deeper understanding of AI s potential and fostering interdisciplinary collaborations Innovation in Drug Discovery By highlighting novel AI methodologies in drug discovery the book offers insights into how these technologies can shorten the development timelines reduce costs and increase the success rates of new therapies which is crucial for addressing unmet medical needs Revolutionizing Telemedicine The detailed discussion on AI s role in telemedicine illustrates how these advancements can enhance access to healthcare improve the quality of care and make healthcare systems more efficient especially in remote and underserved areas Ethical and Regulatory Considerations It likely addresses the ethical privacy and regulatory challenges associated with implementing AI in healthcare offering guidelines for navigating these complexities while maximizing patient benefits Future Directions By exploring current trends and future possibilities the book not only serves as a repository of current knowledge but also as a beacon for future research and development efforts in these rapidly evolving fields

Machine Learning for Sustainable Development Kamal Kant Hiran,Deepak Khazanchi,Ajay Kumar Vyas,Sanjeevikumar Padmanaban,2021-07-19 The book will focus on the applications of machine learning for sustainable development Machine learning ML is an emerging technique whose diffusion and adoption in various sectors such as energy agriculture internet of things infrastructure will be of enormous benefit The state of the art of machine learning models is most useful for forecasting and prediction of various sectors for sustainable development

Intelligent System Algorithms and Applications in Science and Technology Sunil Pathak,Pramod Kumar Bhatt,Sanjay Kumar Singh,Ashutosh Tripathi,Pankaj Kumar Pandey,2022-02-03 The 21st century has witnessed massive changes around the world in intelligence systems in order to become smarter energy efficient reliable and cheaper This volume explores the application of intelligent techniques in various fields of engineering and technology It addresses diverse topics in such areas as machine learning based intelligent systems for healthcare applications of artificial intelligence and the Internet of Things intelligent data analytics techniques intelligent network systems and applications and inequalities and process control systems The authors explore the full breadth of the field which encompasses data analysis image processing speech processing and recognition medical science and healthcare monitoring smart irrigation systems insurance and banking robotics and process control and more

[Proceedings of the 6th International Conference on Intelligent Computing \(ICIC-6 2023\)](#) Ambeth Kumar Visvam Devadoss,Malathi Subramanian,Valentina Emilia Balas,Fadi Al Turjman,Ramakrishnan Malaichamy,2023-10-16 This is an open access book PECTEAM being held for a period of two days aims to witness the development of technologies in all technical and management domains The major event in the conference is paper presentations on the latest advances in Engineering and Management disciplines from National and International academic

sectors Special emphasis is given to update newer technologies by Keynote speakers PECTEAM is a premier platform for researchers and industry practitioners to share their new and innovative ideas original research findings and practical development experiences in Engineering and Management through high quality peer reviewed papers

Handbook of Research on Thrust Technologies' Effect on Image Processing Pandey, Binay Kumar, Pandey, Digvijay, Anand, Rohit, Mane, Deepak S., Nassa, Vinay Kumar, 2023-08-04 Image processing integrates and extracts data from photos for a variety of uses Applications for image processing are useful in many different disciplines A few examples include remote sensing space applications industrial applications medical imaging and military applications Imaging systems come in many different varieties including those used for chemical optical thermal medicinal and molecular imaging To extract the accurate picture values scanning methods and statistical analysis must be used for image analysis The Handbook of Research on Thrust Technologies Effect on Image Processing provides insights into image processing and the technologies that can be used to enhance additional information within an image The book is also a useful resource for researchers to grow their interest and understanding in the burgeoning fields of image processing Covering key topics such as image augmentation artificial intelligence and cloud computing this premier reference source is ideal for computer scientists industry professionals researchers academicians scholars practitioners instructors and students

Soft Computing for Problem Solving Jagdish Chand Bansal, Kedar Nath Das, Atulya Nagar, Kusum Deep, Akshay Kumar Ojha, 2018-10-30 This two volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving SocProS 2017 This conference is a joint technical collaboration between the Soft Computing Research Society Liverpool Hope University UK the Indian Institute of Technology Roorkee the South Asian University New Delhi and the National Institute of Technology Silchar and brings together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers in the areas including but not limited to algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications It is a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is a difficult task

Advanced Techniques for IoT Applications Jyotsna Kumar Mandal, Debashis De, 2021-08-02 This book includes original unpublished contributions presented at the Sixth International Conference on Emerging Applications of Information Technology EAIT 2020 held at the University of Kalyani Kalyani West Bengal India on November 2020 The book covers the topics such as image processing computer vision pattern recognition machine learning data mining big data and analytics information security and privacy wireless and sensor networks and IoT It will also include IoT application related papers in pattern

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 applications in biomedical engineering artificial neural networks fuzzy logic evolutionary optimization data mining Web
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 Jeevarathinam, Srinivasan Kanthalakshmi, Rangasamy Rudramoorthy, 2024-01-23 The International Conference on Science
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Volume 02 Kokula Krishna Hari K, *Proceedings of the International Conference on Cognitive and Intelligent Computing*
 Amit Kumar, Gheorghita Ghinea, Suresh Merugu, Takako Hashimoto, 2022-10-31 This book presents original peer reviewed
 select articles from the International Conference on Cognitive Intelligent Computing ICCIC 2021 held on December 11 12
 2021 at Hyderabad India The proceedings has cutting edge Research outcome related to Machine learning in control
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and Learning P. Nagabhushan,D. S. Guru,B. H. Shekar,Y. H. Sharath Kumar,2018-11-04 This book presents new theories and working models in the area of data analytics and learning The papers included in this volume were presented at the first International Conference on Data Analytics and Learning DAL 2018 which was hosted by the Department of Studies in Computer Science University of Mysore India on 30 31 March 2018 The areas covered include pattern recognition image processing deep learning computer vision data analytics machine learning artificial intelligence and intelligent systems As such the book offers a valuable resource for researchers and practitioners alike

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Lung Cancer Detection Using Image Processing Techniques**

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<https://cmsemergencymanual.iom.int/About/uploaded-files/index.jsp/You%20Will%20Not%20Have%20My%20Hate.pdf>

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