

"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

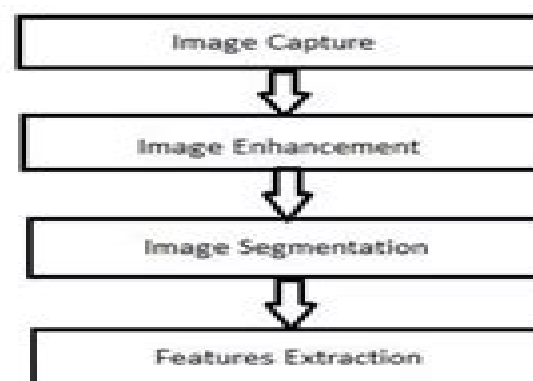


Figure 1.2 Lung cancer image processing Stages

Lung Cancer Detection Using Image Processing Techniques

**K. Murugeswari,B.
Sundaravadivazhagan,S
Poonkuntran,Thendral Puyalnithi**

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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. **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. **Progress in Advanced Computing and Intelligent Engineering** Bibudhendu Pati, Chhabi Rani Panigrahi, Sudip Misra, Arun K. Pujari, Sambit Bakshi, 2018-12-17 The book gathers high quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering ICACIE 2017. It includes technical sections describing progress in the fields of advanced computing and intelligent engineering and is primarily intended for postgraduate students and researchers working in Computer Science and Engineering. However, researchers working in Electronics will also find the book useful as it addresses hardware technologies and next-gen communication technologies. *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 System Algorithms and Applications in Science and Technology Sunil

Pathak, Pramod Kumar Bhatt, Sanjay Kumar Singh, Ashutosh Tripathi, Pankaj Kumar Pandey, 2022-02-02 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

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Engineering Pradip Kumar Jain, Yatindra Nath Singh, Ravi Paul Gollapalli, S. P. Singh, 2022-12-01 This book comprises select proceedings of the International Conference on Advances in Signal Processing and Communication Engineering ICASPACE 2021 The book covers several theoretical and mathematical approaches addressing day to day challenges in signal image and speech processing and advanced communication systems It primarily focuses on effective mathematical methods algorithms and models that enhance the performance of existing systems The topics covered in the book are advances in signal processing radar and biomedical image processing speech processing technical and environmental challenges in 5G technology and strategies for optimal utilization of resources to improve the efficacy of the communication systems in terms of bandwidth and radiating power etc The works published in the book will remarkably be helpful to prospective scholars academicians and students seeking knowledge in signal processing and communication engineering

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 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

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 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

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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

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