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CANCEL OF A MILES CASE AND	Title Visition of Pulmonary Lobes 6	Page No.
S. No 13.	Automatic Segmentation and Vessels, and Bronchi.	102-106
	$1 P am V A \Lambda$	
14.	Review and a Model Proposed Arockia Jackuline Joni J and Arockia Johnsi Rani J	107-113
	DNA Based Security For Cloud Computing Environment	114
15.	Mageshwari V	114-119
16.	Operative Image Processing and Segmentation Based Deep Learning Techniques for Diagnosis of Breast Micro Calcification	120 - 128
	Leena Prema Kumari T and Dr.K.Perumal	
17.	Early Prediction of Chronic Kidney Disease Using Supervised Machine Learning Algorithm	129 - 140
	Dr.V.Jane Varamani Sulekha and Charanya Nagammal T	
18.	An Ensemble Based Approach for Overall Survival Prediction of Glioma Patients Using Brain MRI Images	141 - 151
	Dr.N.Kalaichelvi and Dr.T.Kalaiselvi	
19.	Performance Analysis Using Risk Assessment Model with Kendall Theil-Sen Regressive Bipartite Light Gradient Boosting Machine (RAM-KTRBLGBM) In Network Security	152 - 162
	Prasanya Devi P and Dr.S.Kannan	
20.	Data Mining & Data Analytics Using Power Bi-A Review	1/2 15
	Selva Kumar A, Dr. T. Marimuthu and Dr. R. Lawrance	163 - 17
21.	Data Mining for The Internal Com i	1
	Data Mining for The Internet of Things: Review Analysis	179 - 19
22	Manual Abdul Nasar Packing Line	\$
22.	Ovarian 60	
	Mr.Samim Kamal Abdul Nasar, Packiyalakshmi R Overview of Survival Analysis Methods and Practices	193 - 19
	Uma K and Dr. K.Perumal	193 - 19
23.	Uma K and Dr. K. Perumal Covid-19 Stage Prediction Using Management 200	
23.	Uma K and Dr. K.Perumal Covid-19 Stage Prediction Using Machine Learning Algorithms Manju R and Subha V	
23.	Uma K and Dr. K.Perumal Covid-19 Stage Prediction Using Machine Learning Algorithms Manju R and Subha V	193 - 19
23	Uma K and Dr. K.Perumal Covid-19 Stage Prediction Using Machine Learning Algorithms Manju R and Subha V Geofence Accident Zone D	198 - 20
23.	Uma K and Dr. K.Perumal Covid-19 Stage Prediction Using Machine Learning Algorithms Manju R and Subha V Geofence Accident Zone Detection Barkavi P. Dr. T. Marine et	198 - 20
23.	Uma K and Dr. K.Perumal Covid-19 Stage Prediction Using Machine Learning Algorithms Manju R and Subha V	

AUTOMATIC SEGMENTATION AND VISUALIZATION OF PULMONARY LOBES FROM CHEST CT SCANS BASED ON FISSURES, VESSELS, AND BRONCHI

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ABSTRACT

In image processing the segmentation of image is a major task. The segmentation is related to clinical practice and challenging for causes severe diseases or incomplete fissures. First we are going to detect the foreground and background of the image. After that the automated segmentation method is used to segment the lungs. This automated segmentation method is called as Marker based watershed transformation. In this transformation the lungs divided into lobes. The lung image contains fissure, vessels and bronchi. From this segmentation result we are going to calculate the distance between the incomplete fissures. Further we draw graph from this result, this graph contains the distance between the complete fissures result. This segmentation can be analyzed by the integration of several anatomical structures is against misfissures or incomplete fissures. For evaluation the method was compared to a recently published method on 20 CT scans with no or mild disease. Finally, we analyze the relation between segment quality and incomplete fissure it shows the robust

1. INTRODUCTION - IMAGE PROCESSING

Image processing is a method to convert an image into digital form and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. It is a type of signal it. it. It is a type of signal dispensation in which input is image, like video frame or photograph and output may be image. and output may be image or characteristics associated with that image. Usually Image Processing system includes treating images as two dimensional signals while applying already set signal processing images as two dimensional signals while applying already set signal processing methods to them. It is among rapidly growing technologies today, with its applications in various aspects of a business. Image Processing forms core research area within engineering and computer science disciplines too.

Image processing basically includes the following three steps. Importing the image optical scanner or by digital photography. Analyzing and manipulating the image which includes data compression and image enhancement and spotting patterns that are not to human eyes like satellite photographs. Output is the last stage in which result can be altered image or report that is based. image or report that is based on image analysis. The two types of methods used for Image

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