

Date: 30.08.2012

**CERTIFICATE**

This is to certify that all corrections and suggestions pointed out by both the Indian and Foreign Examiners are incorporated in the thesis titled "**Certain Investigations on Segmentation of Medical Images Using Metaheuristic Algorithms**" submitted by J.Jaya, Ph.D. Scholar (Reg. No. 2006469104 )

Place: Coimbatore

Date: 30.08.12

  
SUPERVISOR

**(Dr.K.Thanushkodi)**

Dr. K. THANUSHKODI BE MSc (Engg) PhD  
Director  
AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY  
Kinathukadavu, Coimbatore - 642 109.

Ph.D.	PT
Reg. No.	2006469104

PROCEEDINGS OF THE Ph.D VIVA-VOCE EXAMINATION OF Mrs.J.JAYA HELD AT 11.00 AM ON 30-08-2012 IN THE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE - 641 013

The Ph.D. Viva-Voce Examination of Mrs. J.JAYA (Reg. No. 2006469104) on her Ph.D. Thesis Entitled “Certain Investigations on Segmentation of Medical Images Using Metaheuristic Algorithms” was conducted on 30-08-2012 at 11.00 A.M in the Department of Electrical and Electronics Engineering, Government College of Technology, Coimbatore.


The following Members of the Oral Examination Board were present:

1. **DR.SUBHAS CHANDRA NANDY**, Professor, Dept. of Advanced Computing and Microelectronics Unit, Indian Statistical Institute (ISI), 203, B.T.Road, Kolkata, West Bengal – 700 108  
- Indian Examiner
2. **DR.T.THYAGARAJAN**, Professor, Instrumentation Engineering, MIT Campus, Anna University, Chennai 600 025.  
- Expert Member
3. **Dr. K. THANUSHKODI**, Director, Akshaya College of Engineering and Technology Coimbatore- 642 109  
-Supervisor & Convener

The research scholar, Mrs. J.Jaya presented the salient features of her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by both the Indian examiners and foreign examiners have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholar’s research work, her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mrs. J.JAYA be awarded Ph.D. degree in the Faculty of Information and Communication Engineering.

  
30/8/2012  
**Dr. Subhas Chandra Nandy**  
Indian Examiner

  
30/8/12  
**Dr. T. Thyagarajan**  
Expert Member

  
**Dr. K. Thanushkodi**  
Supervisor & Convener

**ANNA UNIVERSITY**  
**CHENNAI-600 025**

**BONAFIDE CERTIFICATE**

Certified that this Thesis titled "**CERTAIN INVESTIGATIONS ON SEGMENTATION OF MEDICAL IMAGES USING METAHEURISTIC ALGORITHMS**" is the bonafide work of **Mrs. JAYA J** who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other scholar.

Place: Coimbatore

Date:



**Dr. K. THANUSHKODI**

**SUPERVISOR**

(Professor and Head of the Department (Retd),  
Department of Electrical and Electronics Engg,  
Government College of Tech., Coimbatore)  
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