

# AWARDS & ACHIEVEMENTS

## Faculty Awards & Achievements

- **Dr.R.NANDAKUMAR** received a **“BEST TEACHER AWARD”** from **Junior Chamber International (JCI- Erode)** in the year of 2018.

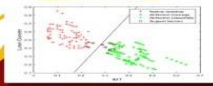




- **Dr.R.NANDAKUMAR** received a fund worth of **Rs.10,00,000** from **AICTE-RPS, New Delhi** for the project of **“An Image Processing System for Early Detection of Cardiovascular Diseases”** as a Co-coordinator.

### An Image Processing System for Early Detection of Cardiovascular Diseases

**Funding Agency** : All India Council for Technical Education - RPS  
**Principal Investigator** : Dr.R.Jayanthi  
**Co-Investigator** : Mr.R.Nandakumar  
**Total funding** : Rs. 10,00,000  
**Reference No.** : 8023/RID/RPS-53/2011-12  
**Duration** : 2012-2014

According to the report given by World Health Organization, almost 23.6 million people will die from cardiovascular diseases CVDs, mainly from heart disease and stroke by 2030. CVD is projected to remain the single leading cause of death. The need still exists for the development of a cost effective system for detecting CVDs. This work is a step taken towards the development of classifiers for the diagnosis of human common carotid artery (CCA) abnormalities from longitudinal ultrasound B-mode images using machine learning approaches. Intima-Media Thickness (IMT) is one of the early indicators of atherosclerosis. It precedes luminal narrowing due to plaque formation. Since plaque formation starts in the walls of the artery, IMT could be a better indicator and positively associated with an incident of stroke. Hence the diameter of lumen and IMT are used for classification. These attributes are measured and tabulated for 150 samples of normal and abnormal CCA images. This data is used to train the SVM and a classifier is developed. The classification accuracy of the developed SVM based classifier is 97%. It is found to be high thus making it a good option for the diagnosis of abnormal arteries



**Ph.D. Thesis :**  
R. Nandakumar (March 2017) : MACHINE LEARNING APPROACH VIA CLASSIFIERS FOR THE DIAGNOSIS OF CARDIOVASCULAR DISEASES USING ULTRASOUND B MODE IMAGES OF COMMON CAROTID ARTERY

**List of Publications :**

1. Nandakumar, R & Jayanthi, K B 2013, 'Automated Lumen Segmentation and Estimation of Numerical Attributes of Common Carotid Artery Using Longitudinal B-Mode Ultrasound Images', IEEE-EMBS Special topic conference on Point-Of-Care (POC) Healthcare technologies, 16-18 January 2013.
2. Nandakumar, R & Jayanthi, K B 2015, 'Mathematical modeling of common carotid artery using polynomial interpolation by automated lumen segmentation and estimation of numerical attributes', International Journal of Applied Engineering Research, vol. 10, no. 20, pp. 18836-18842, ISSN: 0973-4562
3. Nandakumar, R & Jayanthi, K B 2015, 'Automated boundary detection and measurement of common carotid artery attributes using transversal B-mode ultrasound images', Australian Journal of Basic and Applied Sciences, vol. 9, no. 27, pp. 181-186, ISSN: 1991-8178.
4. Nandakumar, R & Jayanthi, K B 2016, 'Analysis Of Abnormalities In Common Carotid Artery Images Using Multiscalelets', ICTACT Journal on Image and Video Processing, vol. 7, no. 2, pp. 1345-1350, ISSN: 0976-9102.

- **Dr.W.DEVA PRIYA** received a grant-in-aid worth of **Rs 21, 68,839** from AICTE, New Delhi to establish the **Skill and Personality Development programme Centre (SPDC)** as a co-coordinator in the year of 2020.

**K S R Institute for Engineering and Technology**  
Tiruchengode, Namakkal, Tamil Nadu - 637215  
Approved by AICTE, New Delhi and Affiliated to Anna University  
All UG Departments are Accredited by NBA  
<https://www.ksriet.ac.in>

**Chairman**  
Lion. Dr. K.S. Rangasamy

**Vice Chairman**  
Thiru. R. Srinivasan, B.B.M., MISTE

**Chairperson**  
Dr. M. Venkatesan  
Principal

**Coordinator**  
Dr. T. Srihari  
Professor /EEE

**Co-Coordinator**  
Dr. W. Deva Priya  
ASP / ECE

**Grant Received from :** AICTE, New Delhi  
**Duration of the grant:** Three Years from 2020 to 2022  
**Title of the grant:** KSRIET aspiring ICT based SPDC  
**Grant received:** Rs. 21,68,839 /.

The Management, The Principal, HoDs and faculty members congratulate the team for receiving a grant-in-aid from AICTE, New Delhi to establish the Skill and Personality Development Programme Centre (SPDC)

Follow [ksrietofficial](#)

- **Dr.W.DEVA PRIYA** received a **Best Innovation Practices Award** from IIC, KSRIET in the year of 2019.



- NPTEL – 3 faculty attained **Top 5% score** & 12 faculty obtained **Elite grade**.



- **9 members** completed IIRS certificate courses.



## Publication :

- ❖ **Journal papers - 54**
- ❖ **Conference papers - 118**
- ❖ **Patent - 6**