

VIGNAN UNIVERSITY-VADALAMUDI

Title of the project: Medical Image Registration of Brain Images

Amount Sanctioned under AICTE RPS Scheme: Rs 9.0 lakhs

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Name of the Co-Investigator : N.Usha Rani

Project Summary

Medical images are normally classified into two types. 1.Anatomical
2.Functional. Anatomical images give structural information, whereas the functional images give the morphology. Anatomical images are obtained from CT, MRI scans etc. Functional images are obtained from PET, SPECT etc. To diagnose any disease, the doctor has to depend on both kinds of images. The project aims at developing single image from the images obtained by using different modalities like, CT and PET. This image will be helpful to diagnose the problems more easily.

The objectives of this project are:

1. To reduce the diagnosis time.
2. To increase accuracy in diagnosis.
3. To locate the exact position of the tumor.
4. To measure the exact growth rate of the tumors.
5. This helps us in analyzing the chemotherapy treatment results from time to time.

Approved items for procurement under this scheme:

1. Labview full development system
2. NI vision development module
3. MEDx Image registration software
4. High end work station with High resolution Monitor
5. Digital Camera