



Women Scientists Scheme (WOS-A)

Department of Science & Technology, Government of India

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Project Proposal Document

Project Details

Proposal Title: ENHANCEMENT OF BREAST CANCER IMAGE CLASSIFICATION PERFORMANCE BY COMBINING CNN & RBM TECHNIQUES

Time Duration (in months): 36

PI Details

Name: Dr. Prasanna Gandhi Lakshmi
Category: GEN
Fathers Name : G.V.Thirupathi Rao
Marital Status: Married
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Break in Career: Yes
Descriptions of Break: Relocation to Vizag for daughter's further studies

Highest Educational Qualification Details

Highest Educational Qualification	Year	Subject	Thesis/Dissertation	Guide Name, Designation & Address
Ph.D Awarded	2014	Computer Science & Engineering	Advanced Techniques for Fingerprint Analysis and Authentication	Dr.J.A.Chandulal, Dean Quality ,KLU.University

Employment Experience Summary(500 words) :

Fellowship/Scholarship Summary(500 words) :

Institution Facilities Summary(500 words) :

Education and Training

Degree	Year	University/Institute	Field of Specialization	Marks/Percentage/CGPA
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Paper Published

No. of Papers Published in Refereed Journals :

Significant Publications

List of Ten Most Significant Publications :

Proposal Technical Details

Summary of Proposal(500 words) :

Breast cancer continues to be among the leading causes of death for women and much effort has been expended in the form of screening programs for prevention. Given the exponential growth in the number of mammograms collected by these programs, computer-assisted diagnosis has become a necessity. Computer-assisted detection techniques developed to date to improve diagnosis without multiple systematic readings have not resulted in a significant improvement in performance measures. A deep learning approach based on a Convolution Neural Network (CNN) model for multi-class breast cancer classification approach aims to classify the breast tumors in non-just benign or malignant. Experimental results on histopathological images using the Break His dataset show that the Dense Net CNN model achieved high processing performances with 95.4% of accuracy in the multi-class breast cancer classification task when compared