




# Bharathiar University

State University | "A++" Grade by NAAC | 46<sup>th</sup> Rank in MoE-NIRF  
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

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<b>Research Area</b> <ul style="list-style-type: none"><li>• Fuzzy sets and systems</li><li>• Similarity measures</li><li>• Medical Image processing</li><li>• Quantum Computing</li></ul>	<b>Courses Teaching</b> <ul style="list-style-type: none"><li>• Fuzzy Set Theory</li><li>• Algebra</li><li>• Function Analysis</li><li>• Numerical Methods</li></ul>
<b>Research Experience:</b>	<b>Teaching Experience:</b>
<b>Research Credentials</b> (as on – Source: Google scholar) H-index: 10                      Citations: 343                      i10-index: 10	
<b>Publications</b> International Journals: 5	
<b>Education</b> <b>Ph. D.</b> Subject : Mathematics Institution : Chikkanna Govt Arts College, Tiruppur Affiliated University : Bharathiar University Year of Award : December 2015 <b>PGDCA</b> Subject : Computer Application Institution : Alagappa University Affiliated University : Alagappa University Year of Award : May 2004 <b>M. Phil.</b> Subject : Mathematics Institution : Madurai Kamaraj University Affiliated University : Madurai Kamaraj University Year of Award : November 2003 <b>M. Sc.</b> Subject : Mathematics Institution : Bharathiar University, Coimbatore Affiliated University : Bharathiar University Year of Award : May 2000 <b>B. Sc.</b> Subject : Mathematics Institution : LRG Govt Arts College, Tiruppur Affiliated University : Bharathiar University Year of Award : May 1998	
<b>Institutional Responsibilities</b>	



## Deputy Director i/c, CRE

Period :Dec 2021 - Dec 2023

Nature of Responsibility :Management of works relating to admission of Ph.D

## Selected Publications

### 1. A segmentation model for breast cancer images-FAUNet

Biomedical Signal Processing and Control,110 (January 2025)

Gokulakrishnan Dhamotharan, Dhanalakshmi Palanisami, Nandhini Mohan, Vethavigasini Deivasigamani

### 2. Neutrosophic fusion of multimodal brain images: Integrating neutrosophic entropy and feature extraction

Applied Soft Computing,155 (April 2024)

KG Lavanya, P Dhanalakshmi, M Nandhini

### 3. A novel quantum representation of fuzzy image and simulation on IBMQ.

Quantum Information Processing,22(5) (April 2023)

M Nandhini, P Dhanalakshmi, KG Lavanya