




Bharathiar University

State University | "A++" Grade by NAAC | 46th Rank in MoE-NIRF
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<p>Research Area</p> <ul style="list-style-type: none">• Fuzzy sets and systems• Similarity measures• Medical Image processing• Quantum Computing	<p>Courses Teaching</p> <ul style="list-style-type: none">• Fuzzy Set Theory• Algebra• Function Analysis• Numerical Methods
<p>Research Experience:</p>	<p>Teaching Experience:</p>
<p>Research Credentials (as on – Source: Google scholar) H-index: 10 Citations: 343 i10-index: 10</p>	
<p>Publications International Journals: 5</p>	
<p>Education</p> <p>Ph. D. Subject : Mathematics Institution : Chikkanna Govt Arts College, Tiruppur Affiliated University : Bharathiar University Year of Award : December 2015</p> <p>PGDCA Subject : Computer Application Institution : Alagappa University Affiliated University : Alagappa University Year of Award : May 2004</p> <p>M. Phil. Subject : Mathematics Institution : Madurai Kamaraj University Affiliated University : Madurai Kamaraj University Year of Award : November 2003</p> <p>M. Sc. Subject : Mathematics Institution : Bharathiar University, Coimbatore Affiliated University : Bharathiar University Year of Award : May 2000</p> <p>B. Sc. Subject : Mathematics Institution : LRG Govt Arts College, Tiruppur Affiliated University : Bharathiar University Year of Award : May 1998</p>	
<p>Institutional Responsibilities</p>	



Deputy Director i/c, CRE

Period :Dec 2021 - Dec 2023

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

Publications

International Journals - 5

5. [A segmentation model for breast cancer images-FAUNet](#)

Biomedical Signal Processing and Control,110 (January 2025)

Gokulakrishnan Dhamotharan, Dhanalakshmi Palanisami, Nandhini Mohan, Vethavigasini Deivasigamani

4. [A soft clustering approach for segmenting brain tumor in intuitionistic fuzzy environment](#)

Biomedical Signal Processing and Control,91 (May 2024)

P. Dhanalakshmi, M. Nandhini, K.G. Lavanya

3. [Neutrosophic fusion of multimodal brain images: Integrating neutrosophic entropy and feature extraction](#)

Applied Soft Computing,155 (April 2024)

KG Lavanya, P Dhanalakshmi, M Nandhini

2. [A novel quantum representation of fuzzy image and simulation on IBMQ.](#)

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

M Nandhini, P Dhanalakshmi, KG Lavanya

1. [An innovative neutrosophic combinatorial approach towards the fusion and edge detection of MR brain](#)

medical images

Neutrosophic sets and systems,50(1) (December 2022)

Premalatha R, Dhanalakshmi P