



Kowsalya. G

Ph.D. MATHEMATICS

PROFILE

To build career in a reputed organization where I can use all my skills for the welfare of the organization and for personal growth through continuous learning.

CONTACT

PHONE:

9715898773

ADDRESS:

4/617 Siruvani main road, Karunya Nagar, Coimbatore - 641114

EMAIL:

Kowsimercy44@gmail.com

STRENGTHS

- Possess Positive attitude.
- Responsible towards work.
- Self-motivated and directed.
- Workaholics.

RESPONSIBILITIES

- Strong observational skills.
- Caring, friendly and outgoing nature
- Ability to relate with a wide variety of people.

SKILLS

- C, C++.
- LaTeX.
- MATLAB.

RESOURCE PERSON: Delivered a lecture as a resource person on the topic "**BASIC ARTICLE WRITING USING LATEX**"

EDUCATION

GOVERNMENT HIGHER SECONDARY SCHOOL, KOTAGIRI (2010)

10th passed from SSLC Board (70%)

GOVERNMENT HIGHER SECONDARY SCHOOL (2012)

12th passed from HSC Board (55%)

MICHAEL JOB COLLEGE FOR WOMEN (2012-15)

B.sc MATHEMATICS (7.2 CGPA)

KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES(2015-17)

M.sc MATHEMATICS (7.4 CGPA)

KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES(2018-22)

Ph.D. MATHEMATICS (Thesis Submitted)

PROJECT DETAILS

M.sc project: "MATHEMATICAL MODELLING OF HIV INFECTION USING FRACTIONAL ORDER DIFFERENTIAL EQUATION"

PhD Project Title: " MATHEMATICAL ANALYSIS OF SAMPLING AND RECOVERY OF 2D DATA FOR COMPRESSIVE SENSING APPLICATION"

PAPERS PUBLICATIONS

- Analysis of the Impact of Measurement Matrices in Compressive Sensing For Medical Images. **Advances in Mathematics: Scientific Journal**, 9(2 Special Issue), pp.591–600.
- Analysis of the Measurement Matrix in Directional Predictive Coding for Compressive Sensing of Medical Images. **ELCVIA. Electronic letters on computer vision and image analysis**, 20(2).
- Review on Deep Learning Methodologies in Medical Image Restoration and Segmentation. **Current Medical Imaging**.
- Development of Low Rank Sparse Matrix Decomposition for Improving Spatial and Temporal Resolutions of MRI Medical Data. In 2021, **IEEE**.

PERSONAL DETAILS:

NAME : Kowsalya.G
D.O.B : 04-04-1995
FATHER'S NAME : Gopalakrishnan. G
ADDRESS :
4/617,Sappanimadai road,
Karunya Nagar,
Coimbatore
641114.
STATE : Tamil Nadu
NATIONALITY : Indian
LANGUAGES KNOWN :
Tamil, English (to speak, read, write)
Malayalam, Telugu (to speak only)

- Mathematical analysis of stochastic distribution in compressive sensing of MRI images, **Expert Systems with Applications. (Communicated)**
- Research Gaps in Brain Image Segmentation: A Survey. **Current Medical Imaging. (Communicated)**
- Reconstruction of MRI images using compressive sensing based on deep learning, **neural computing and applications. (Communicated)**
- Sparse Modeling of Dictionary Learning in Compressive Sensing for Medical Images in **International Conference on computing sciences. (Communicated).**
- Generation of chain code picture language, **Journal of membrane computing.(Communicated)**

PRESENTED IN INTERNATIONAL CONFERENCES

- Application of Stochastic Process in Highway Projects.
- Mathematical Modelling of HIV Infection Using Fractional Order Differential Equation.
- On The Benefits of Laplace Samples in Solving A Compressive Sensing Problem For Medical Images.
- Development of Low Rank Sparse Matrix Decomposition for Improving Spatial and Temporal Resolutions of MRI Medical Data.
- Sparse Modelling of Dictionary Learning In Compressive Sensing For Medical Images.

ONLINE COURSES/WORKSHOP

1. Workshop on **Machine learning, Deep learning Data science and artificial Intelligence** and **basics of documentation using Latex.**
 2. Online value added course on **Recent applications of Mathematics in Engineering** and **Programming and type setting tools in Engineering.**
 3. Online course on **Programming and type setting tools in Engineering.**
 4. Online national workshop on **basics of documentation using Latex.**
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