

Name : Mrs. DEVI KALA R  
Qualification : MCA., M.Phil.,  
Designation : Assistant. Professor,  
Year of Experience 15  
Previous Experience : 05  
Staff ID : EP18/120475  
Area of Specialization : Neural Networks and Image Processing  
Email : devikala@ethirajcollege.edu.in

Vidwan Id: 235126

### **MEMBERSHIP:**

Member in ICTACT Academy (Institutional Membership)

### **WORKSHOPS**

- Attended a State level workshop on secrets of network communication organized by Loyal College on 24-01-2012.
- Attended a State level workshop on personality development for women organized by Ethiraj College for women on 28-03-2012.
- Attended a State level workshop on development of strategies for quality enhancement organized by Ethiraj College for women on 12-07-2013.
- Attended a State level workshop on Innovative research methodology organized by Ethiraj College for women on 3-10-2014
- Attended a State level workshop on effective governance and brand building in higher educational institutions organized by Ethiraj College for women on 24-02-2014 and 25-02-2014
- Attended a National level workshop on effective governance and brand building in higher educational institutions organized by Ethiraj College for women on 24-02-2014 and 25-02-2014
- Attended a National level workshop on MATLAB-a research perspective organized by Ethiraj College for women on 06-03-2014 and 07-03-2014
- Attended a National level workshop on project proposals and guidelines for sciences organized by Ethiraj College for women on 12-08-2014 .
- Attended a National level workshop on IOT with Raspberry PI organized by Ethiraj College for women on 27-02-2017 and 28-02-2017 .
- Attended a National level workshop on Performance Enhancement organized by Ethiraj College for women on 9-03-2017.

- Attended a NPTEL WORKSHOP organized by SSN College of Engineering, Chennai on 9-12-2017.
- Attended a State level workshop on Deep learning using tensor flow with python organized by Loyola College, Chennai on 28-04-2018 and 29-04-2018 .
- Attended 5 days online Faculty Development Programme organised by School of Computer Science & Engineering on *Computational Intelligence Systems and Security (CISS 2020)* held from 20th to 24th July 2020.
- Attended webinar on 27th and 28<sup>th</sup> May 2020 on “**Data Analytics**” organized by Department of Information Technology of St. Joseph’s Institute of Technology.
- Attended a Spoken Tutorial Project, IIT Bombay on Python 3.4.3 organized by Sathyabama Institute of Science and Technology on Jan 2020.
- Participated in the National Level online hands-on FDP on “**Reskilling using ICT Tools**” from 15-06-2020 to 21-06-2020 organized by the Department of Computer Science and Engineering of Dr.M.G.R. Educational and Research Institute, Maduravoyal, Chennai.
- Participated in National Summit on Cyber Security:Issue of concern for Business Challenges Opportunities & Remedies organized by Institute of Technology & Science, Ghaziabad on 20<sup>th</sup> March 2021.
- Participated in the International webinar on “**Empowerment of Research Culture for Female Teachers**” organized by Women Empowerment Cell(WEC) of Mahendra College of Engineering in collaboration with Institutions’ Innovation Council on 22-02-2022.
- Successfully completed **one-week International Faculty Development Programme** on “**Big Data Analytics**” from 07-02-2022 to 15-02-2022 organized by the PG Department of Banking and Insurance Management, Ethiraj College For Women, Chennai.
- Successfully completed **one-week Virtual Workshop on Full-Stack Development** from 21-02-2022 to 26-02-2022 organized by Department of Computer Science and Computer Science and Engineering-Artificial Intelligence & Machine Learning, ABES Engineering College, Ghaziabad.
- Successfully completed the "**Faculty UpSkilling Program (FUP) on Cyber Terrorism and Defense**", organised by Chandigarh University, Punjab during 4th-8th April, 2022.
- Successfully attended the 120 Minutes International Online Webinar on "**Robotic in Health care**", organised by **NITTR**, Chennai on 29-04-2022.

### **MHRD BU RUSA**

- Attended a Six Days Online Training Programme on “**MATLAB**” organized by Bharathiar University on Digital Career and Entrepreneurship Hub project of **MHRD BU RUSA** Phase II BEICH from 10.03.2021 -17.03.2021.
- Successfully completed **Two-week Workshop on Analytical tools for Image Processing organized under MHRD-RUS 2.0 Biomaterials** project by the by the Department of Computer Science, University of Madras during 1-01-2022 to 17-02-2022

### **AICTE Programmes**

- Attended AICTE-ISTE sponsored Refresher course on Building Professional and Leadership Excellence Among Faculty-A Holistic Approach in Designing and Developing An Integrated and Inclusive Teaching Learning Ecosystem from 23.07.2018 to 28.07.2018.
- Attended AICTE Training and Learning (ATAL) Academy Online FDP on “Data Sciences” organized by Indian Institute of Information Technology (Nagpur) from 11.05.2020-15.05.2020.
- Successfully completed Module 5- Technology Enabled Learning and Life-Long Self Learning of National Initiative for Technical Teachers Training organized by AICTE.
- Attended a One-week online AICTE Short Term Training Programme on Machine Learning on Recent Trends and Applications Phase-II organized by Srinivasa Ramanujan Institute of Technology from 24.05.2021-29.05.2021.
- Attended a AICTE –ISTE sponsored Induction/Refresher Programme on Data Analytics Treasure & Big Data Visualization in Augmented Reality and Virtual Reality organized by R.M.D .Engineering College from 10-12-.2021-16-12-2021.

### **CONFERENCES ATTENDED / PRESENTED PAPER/ JOURNAL PUBLICATIONS**

- Devi Kala. R , Jayanthi. S and Janet. A, “Shift Invariance with DWT for Image Fusion”, *paper presented in Second International Conference on Innovations in Contemporary IT*

*Research - ICITR 2015 on 6<sup>th</sup>& 7<sup>th</sup> Feb 2015 and published in conference proceedings ICITR 2015,ISBN: 978-93-81899-03-8*

- Devi Kala. R , Jayanthi. S and Janet. A, “Study of Image Fusion Based On Wavelet Transform”, *paper presented in Second International Conference on Innovations in Contemporary IT Research - ICITR 2015 on 6<sup>th</sup>& 7<sup>th</sup> Feb 2015 and published in conference proceedings ICITR 2015,ISBN: 978-93-81899-03-8*
- Devi Kala. R, Kayathri. P, “A Survey on Medical Diagnosis using Artificial Neural Network and Fuzzy System”, *paper presented in International Conference on Recent Trends in Computing Technology (ICRTCT-2016) on Feb 22,23<sup>rd</sup> February 2016 , ISBN 978-81-923741-3-0*
- Devi Kala. R, Sasikala. K, “A Survey on Digital Mammographic Techniques”, *paper presented in International Conference on Recent Trends in Computing Technology (ICRTCT-2016) on Feb 22,23<sup>rd</sup> February 2016, ISBN 978-81-923741-3-0*
- Devi Kala. R and Dr. Gladis. D, “Directive Contrast based Multimodal Image Fusion in UWT and NSCT Domain”, *published in the Indian Journal of Science and Technology, Vol 9(29), DOI: 10.17485/ijst/2016/v9i29/93848, August 2016*
- Sushma. S and Devi Kala. R “Brain Tumor Segmentation and Classification using Graph Cut Segmentation and DRLBP “ *presented and published in the International Journal of Engineering Science and Computing (IJESC-june 2017) ISSN 2321 3361.*
- Venkateswari. R and Devi Kala. R, “Brain Tumor Segmentation based on GLCM feature extraction using probabilistic neural networks published in the International Journal of Engineering Science and Computing (IJESC-june 2017) ISSN 2321 3361.
- Maheswari R, Devi Kala. R Automatic cervical cancer classification using GMM segmentation and general regression neural networks presented and published in the Mathematical Sciences International Research Journal Volume 7 Spl Issue 3-June 2018 ISSN 2278-8697
- Devi Kala. R and Dr. Gladis. D, “A survey on Digital Techniques for Brain Tumor Detection in MRI”, *published in the Indian Journal of Scientific Research and Review, Vol. 8 , Issue 6, 2019.UGC CARE LIST JOURNAL- Impact Factor-2.19 - DOI CROSSREF,USA :10.32606/IJSR*

- Devi Kala. R and Dr. Gladis. D, “Optimal Deep Transfer Learning Framework for Feature Selection based Brain Tumor Image Classification” published in the *International Journal of Advanced Science and Technology Vol. 28, No. 14, (2019)*, pp. 319-336. **(SCOPUS INDEXED) –H-index-15**
- Ragavi. S, Devi Kala. R, Dr. Gladis. D, “A comparative study on various filtering techniques for brain tumor detection”, presented a paper in the *International Conference on Information Management & Machine Intelligence (ICIMMI-2019)* held during December 14-15, 2019 at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
- Devi Kala. R, Dr. Gladis D, “Accurate Recognition and Isolation of Brain Tumor Evidences from Medical MRI Images using Image Recognition Guarantee published in International Journal of Pharmaceutical Research | Oct - Dec 2020 ,Vol 12, Issue 4. . **(SCOPUS INDEXED)-H-index-17, Impact Factor-0.67**
- Saranya .K Devi Kala.R ,” A survey on Skin Disease Detection” published in International Journal of Advanced Development in Science and Technology Volume 3 Issue 08, Sep 2021 e-ISSN:2582-1059

#### **NPTEL ONLINE CERTIFICATIONS**

- Cloud Computing conducted for 8 weeks from Feb 2019-April 2019 conducted by Prof. Adrijit Goswami , Indian Institute of Technology Kharagpur. (consolidated score of 73% )
- Computer Networks and Internet Protocol for 12 weeks- Jan- Apr 2020 conducted by Prof. Adrijit Goswami , Indian Institute of Technology Kharagpur.(consolidated score of 84 % )
- Python for Data Science-4 week course-- Jan- Feb 2020 conducted by Prof. Devendra galihal with consolidated score 83%.

#### **Certifications Completed:**

1. Successfully completed the course “Information Security Awareness “ by Fortinet Training Institute on January 22, 2023.
2. Sucessfully achieved NSE1 Network Security Associate in Fortinet on Jan 22, 2023.
3. Successfully achieved NSE2 Network Security Associate in Fortinet on Feb 1, 2023.