Dr.T. KALAISELVI



1.	Designation	: Associate Professor
2.	Centre / Department / School	: Computer Science and Technologies
3.	Qualification	: MCA, PhD, PDF
4.	Experience (in years)	: Teaching: 21 years Research: 18 years
5.	Area of Specialization	: 1) Medical Image Processing 2) Artificial Intelligence 3) IoT & Robotics
6.	Mobile Number	: 9486362843
7.	E-Mail ID	: kalaiselvi.gri@gmail.com
8.	Orcid ID	: 0000-0002-0197-2077
9.	Google Scholar ID	: iqPcLBAAAAAJ
10.	IRINS Link for detailed profile	:https://ruraluniv.irins.org/profile/107254

11. **Research Guidance:**

Degree	Awarded		Guiding
	Total	For the period 2019-2024	
Ph.D.	7	5	3

12. **Publications:**

S.No.	Category	Total	For the period 2019-2024
1.	No. of Publications	80	20
2.	Books Published	10	8
3.	No. of Chapters in Edited Volume /Proceedings	36	24

Select Publications (2019-2024)

S.No.	Title of the Article	Name of the Journal	I/N	ISBN/ ISSN	Vol.	Pg.	Month and Year
1.	RIBM3DU-Net: Glioma tumour substructures segmentation in magnetic resonance images using residual-inception block with modified 3D U-Net architecture	International Journal of Imaging Systems and Technology	I	Doi: 10.1002/ima.23056	32	1-17	March 2024
2.	E-Tanh: a novel activation function for image processing neural network models	Neural Computing and Applications, Springer	I	https://doi.org/10.1007/s00521-022-07245-x	34	16563 – 16575	Oct 2022
3.	Multimodal covid network: Multimodal bespoke convolutional neural network architectures for COVID-19 detection from chest X-ray's and computerized tomography scans	International Journal of Imaging Systems and Technology	I	https://doi.org/10.1002/ima.22712	32	704-716	May 2022
4.	An automatic self-initialized clustering method	Concurrency and Computation:	I	https://doi.org/10.1002/cpe.6084	33	-	March 2021

	for brain tissue segmentation and pathology detection from magnetic resonance human head scans with graphics processing unit (GPU) machine	Practice and Experience (IF: 1.831)					
5.	Automatic Brain Extraction From MRI of Human Head Scans using Helmholtz Free Energy Principle and Morphological Operations	Biomedical Signal Processing and Control, Elsevier (IF:5.076)	I	1746-8094	64	1-15	Nov 2020

13. **Sponsored Projects:**

Major Projects handled so far		Major Projects handled during 2019-2024	
Nos.	**Financial Outlay (Rs.in lakhs)**	**Nos.**	**Financial Outlay (Rs.in lakhs)**
3	59.67	2	51

14. No. of Seminars/Conferences/Workshops organized (2019-2024) :10
15. No. of Presentations in Seminars/Conferences (2019-2024) : 15
16. No. of Patents : 1
17. Details of Awards and Honours (from recognized Govt. agencies) (2019-2024) :1
18. No. of Invited Talks in National / International Conferences (2019-2024) :30

19. **Additional responsibilities (2019-2024):**
    - Warden, Ladies Hostel, GRI
    - Member, UBA Executive Committee, GRI
    - Member, Working Committee– IQAC
    - GRI Alumni Cell, Gurukula
    - Member, Organizing Committee – Fresher's Orientation Programme
    - Faculty Adviser, Electronics Club, GRI

20. **Awards / Honours / Recognitions / Achievements: (2019-2024):**
    Convener – Software Development for online admission and payment of bills, GRI Hostels