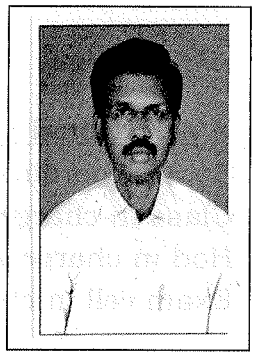
Dr R.Krishnaswamy
Assistant Professor
Department of __Electronics and comm and Engg
UCE- Ariyalur
Kaathankudikadu,
Thelur (PO)
Ariyalur – 621 704
Contact no: 9884612373
Mail. ID : krishnaspecial@gmail.com
krishna@auucea.edu.in



➢ **Research Area:**

Medical image compression using reconfigurable hardware.

➢ **Educational Qualifications:**

Qualification	Department	Year (From - To)	Class
Phd	I & C ENGG	2021	
M.E	COMMUNICATION SYSTEMS	2006-2008	FIRST
B.E	ELECTRONICS AND COMMUNICATION ENGG	2001-2005	FIRST

➢ **Experience:**

Name of Company / Institutions	Designation of Post	From	To
UNIVERSITY COLLEGE OF ENGINEERING ARIYALUR	ASSISTANT PROFESSOR	24-08-2009	TILL DATE

➢ **Additional / Academic Responsibilities at University:**

Sports coordinator 2012-till date
Class In chargefrom 2012 to Till Date
Hod in charge 2015 to till date
Exam cell in charge

➢ **Professional Activities:**

a) Organized One Day "Placement Training Program" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 29.07.2011.
b) Organized One Day National Level Technical symposium "Elctrocalifa 2k12" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 28.09.2012.
c) Organized One Day National Level Technical symposium "Tekpew 2k14" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 04.09.2014.
d) Organized One Day National Level Technical Workshop on "Recent Trends and Application of Nano Photonics in Optical Communication" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 11.10.2014.
e) Organized One Day National Level Technical symposium "Electrocalifa 2k15" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 30.09.2015.
f) Organized One Day National Level Technical symposium "Electrocalifa 2k16" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 08.09.2016.
g) Organized One Day National Level Technical symposium "Elcommelfia 2k17" conducted by Department of Electronics and Communication Engineering, University College of Engineering, Ariyalur on 08.09.2017.
h) Keynote Address Speaker for International conference on computing, communication and drastic innovations in energy thrive IC3 DIET-2018 in University College of Engineering -Panruti on 28st feb 2018.

➢ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

a) Two Days Workshop (2010), "NETWORKING SIMULATORS ", organized by Dept. of ECE Anna university Tiruchirappalli,BIT Campus during 17-07-2010 &18-07-2010. (Two Days)

b) One day workshop on "TEACHING METHODOLOGIES" organized by Department of English Anna university of technology Tiruchirappalli during 08.01.2011

c) Two Weeks AICTE Sponsored FDP (2013), "DEVELOPING PEDAGOGICAL SKILLS FOR TEACHERS THROUGH ACTIVE LEARNING TECHNIQUES", organized by Department of Management studies, MAM College of Engineering, Trichy during 10.06.2013 to 22.06.2013. (13 Days)

d) One day workshop on "TEACHING SKIL AND SMART CLASS ROOM TOOLS" organized by centre for faculty development Anna University Chennai in Anna University Chennai during 07.01.2013

e) Two Weeks Training Program (2014), "TRAINING PROGRAM ON RESEARCH METHODOLOGIES OF INFORMATION AND COMMUNICATION ENGINEERING", organized by Department of Computer Science and Engineering, Meenakshi Ramasamy Engg. College, Thathanur during 12.06.2014 to 22.06.2014. (11Days)

f) Electronics circuits –I sponsored by centre for faculty development Anna University Chennai in Anna University Chennai from 23 -6-14 to 29-06-14(7 days)

g) Three Days TSCST, Chennai Sponsored program (2014), "SCIENCE AND TECHNOLOGY CAPACITY BUILDING FOR INDUSTRIAL NEEDS ", organized by university College of Engineering, Ariyalur during 07.07.2014 to 09.07.2014. (3 Days)

h) Three Day National workshop (2014), "NETWORKING AND TROUBLESHOTING", organized by Sparcs at university College of Engineering, Ariyalur during 29.09.2014 to 01.10.2014 (3 Days)

i) One Day workshop (2014), "ETAP SOFTWARE AND ITS APPLICATION", organized by ETAP automations at university College of Engineering, Ariyalur during 07.10.2014 (1 Day)

j) Two Weeks ISTE STTP (2015), "INTRODUCTION TO DESIGN OF ALGORITHMS", organized by Indian Institute of Technology Kharagpur during 27.04.2015 to 30.05.2015. (Two weeks)

k) Three days training program "Integrated Electronics workbench "organized by zealtech electromec india pvt Ltd Coimbatore at university college of engg villupuram during
22.07.15 to24.07.2015

l) Two Week TEQIP sponsored FDP (2016), "HEURISTIC APPROACH FOR INFORMATION AND COMMUNICATION ENGINEERING RESEARCH PROBLEMS", organized by Bharathidasan Institute of Technology, Anna University, Tiruchirappalli during 15.06.2016 to 25.06.2016. (14Days)

m) Multicore architecture & programming sponsored by centre for faculty development Anna University Chennai in university college of engg panruti from 23 -11-16 to 29-11-16(7 days)

n) Two day workshop on "Train the trainers Employability skill enhancement for engineering Graduates " conducted by CUIC Anna University and Titan Company Limited18.01.2017 to 19.01.17

o) Transforms and partial differential Equation sponsored by centre for faculty development Anna University Chennai in University College of engg ariyalur from 25 -05-17 to 31-05-17(7 days)

p) Two Weeks AICTE Approved FDP (2017), "FOUNDATION PROGRAM IN ICT FOR EDUCATION", organized by Indian Institute of Technology, Bombay during 03.08.2017 to 07.09.2017. (Two weeks)

q) Two Weeks AICTE Approved FDP (2017), "PEDAGOGY FOR ONLINE AND BLENDED TEACHING –LEARNING PROCESS", organizedby Indian Institute of Technology, Bombay during 14.09.2017 to 12.10.2017. (Two weeks)

- **International Conferences Participated:**
  a) R.Krishnaswamy. & Dr.S. Nirmaladevi, "EFFICIENT MEDICAL IMAGE COMPRESSION BASED ON INTEGER WAVELET TRANSFORM," 2020 Sixth International Conference on Bio Signals, Images, and Instrumentation (ICBSII), Chennai, India, 2020, pp. 1-5, doi: 10.1109/ICBSII49132.2020.9167597

- **Publications :**

a. International Journals:

1. R. Krishnaswamy, S. Nirmaladevi A Detailed Review On Atlas Based Segmentation Of MRI Brain Images International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 17 (2015) pp 37320-37325
2. Krishnaswamy, R.; Nirmaladevi, S octagon with Diagonal Cross Hair Search Algorithm for Efficient Medical Image Compression J. Med. Imaging Health Inf. 8, 907–914 (2018)ISSN: 2156-7018 (Print): EISSN: 2156-7026 (Online)
3. *Krishnaswamy, R.. "VLSI based orthogonal diagonal cross hair search (ODCHS) algorithm implementation for efficient image compression." Microprocess. Microsystems 76 (2020): 103114.*
4. Krishnaswamy, R., and S. Nirmaladevi. 'Octagon with Diagonal Cross Hair Search Algorithm for Efficient Medical Image Compression'. Journal of Medical Imaging and Health Informatics 8, no. 5 (2018): 907–14.
5. Krishnaswamy, R., Kamalraj Subramaniam, V. Nandini, K. Vijayalakshmi, Seifedine Kadry, and Yunyoung Nam. 'Metaheuristic Based Clustering with Deep Learning Model for Big Data Classification'. Comput. Syst. Sci. Eng. 44, no. 1 (2023): 391–406.

➢ **Conferences**

a. International Conferences:

1. Krishnaswamy, R., and S. NirmalaDevi. 'Efficient Medical Image Compression Based on Integer Wavelet Transform', 1–5. IEEE, 2020.
2. Krishnaswamy, R., Anita Titus, G. Gengalakshmi, S. Srinivasan, and J. Manikandan. 'Deep Learning Features Restoration and Regional Longitudinal Fitting of Computed Tomography Images Using Convolution Neural Network', 1000–1004. IEEE, 2022.
3. Hamsaveni, V. G., S. P. Maniraj, R. Krishnaswamy, K. Radhika, V. Venkataramanan, and S. Renukadevi. 'Intelligent Classification of Brain Cancers by Deep Learning with Inception Network', 681–84. IEEE, 2022.
4. Krishnaswamy, R., K. Radhika, V. G. Hamsaveni, and G. Susila. 'Embedded Sensor and IoT Technology Based Substation Monitoring and Control System', 1336–41. IEEE, 2023.
5. Padmapriya, G., R. Krishnaswamy, P. Srinivasan, and P. V. Pramila. 'Internet of Things Based Accident Detection and Alerting System to Save Lives', 1622–26. IEEE, 2023.

6. Vijayalakshmi, N., S. Yuvaraj, V. Vijaya Baskar, R. Krishnaswamy, K. Sasikala, and C. Srinivasan. 'Optimized Control of IoT-Monitored Microgrid Systems Using Genetic Algorithm', 1014–18. IEEE, 2023.

7. Vijaipriya, K., C. Priya, Siji Sivanandan, and R. Krishnaswamy. 'ECG Monitoring System Using IoT for Health Care Applications', 1611–15. IEEE, 2023.

8.

b. National Conferences:

a) Presented a Paper (2015), on "A NOVEL COMPRESSION TECHNIQUE FOR MEDICAL IMAGES "National Conference On Advanced Intelligent Computing and Applications organized by Department of Computer Science and Engineering, Meenakshi Ramasamy engineering College, Thathanur during 09.02.2015.