

N K R GOVERNMENT ARTS COLLEGE FOR WOMEN, NAMAKKAL – 637 001

DEPARTMENT OF COMPUTER SCIENCE

STAFF PROFILE



1. Name : **Dr. K.RENUGA DEVI**
2. Designation : GUEST LECTURER
3. Education Qualification : M.C.A., M.Phil., Ph.D., NET., SET.,
4. Email Id : renuga.star@yahoo.co.in, renuga.star10@gmail.com
5. Google scholar id : <https://scholar.google.com/citations?user=EjdCUf0AAAAJ&hl=en>
6. Research Experience : 7 Years
7. Area of Research : Signal Processing, Data Mining, Classification, Rough Set
8. Permanent Address : 2/2, V.Nagar Road-4, Rasipuram(T.K),
Namakkal – 637408
9. Phone No : 9944437268

EDUCATIONAL QUALIFICATION:

Degree	University	Month & Year of Passing	Class/ Grade
B.Sc.(CS)	MADURAI KAMARAJ UNIVERSITY	APR' 2009	I CLASS
M.C.A	ANNA UNIVERSITY, CHENNAI	JUN' 2012	I CLASS with DISTINCTION
M.Phil.,(CS)	PERIYAR UNIVERSITY	SEP' 2014	I CLASS with DISTINCTION
Ph.D.,(CS)	PERIYAR UNIVERSITY	FEB' 2020	Qualified

PROFESSIONAL QUALIFICATION:

Degree	University	Month & Year of Passing	Class/ Grade
NET	UNIVERSITY GRANTS COMMISSION	OCT 2016	Qualified
SET	MOTHER TERESA WOMEN'S UNIVERSITY	FEB 2016	Qualified
NET	UNIVERSITY GRANTS COMMISSION	JAN 2024	Qualified

TEACHING EXPERIENCES

S. No.	From DD/ MM / YY	To DD/ MM / YY	Name of the Institution	Total Years
1	02.09.2020	05.07.2021	Paavai Arts and Science College for Women, Namakkal	10 months
2	23.01.2023	Till date	N.K.R Govt Arts College(W), Namakkal.	1 year and 6 months

WORK EXPERIENCES

Worked as **e-District Manager in District e-Governance Society, Namakkal Collectorate, Namakkal under e-governance Project run by Tamilnadu e-Governance Agency (TNeGA), Chennai from 10.02.2017 to 28.02.2018.**

Job Nature

Handling Government websites, Implementation of e-governance Project

RESEARCH EXPERIENCE

Worked as **Principal Investigator** for the project entitled “**Early diagnosis of cardiovascular disease and rehabilitative BCI for brain Stroke Patient**” Funded by **Department of Science and Technology, NASI** under the guidance of Dr.H.Hannah Inbarani in Department of Computer Science, Periyar University, Salem from **13.01.2015 to 13.01.2016**

LIST OF PUBLICATION

1. K Renuga Devi, H Hannah Inbarani,” **Neighborhood based decision theoretic rough set under dynamic granulation for BCI motor imagery classification**”, **Journal on Multimodal User Interfaces** **15**, pp. 301–321, 2021. <https://doi.org/10.1007/s12193-020-00358-4> (Indexing: SCOPUS, Google Scholar)
2. G.Jothi, H.Hannah Inbarani,Ahmad Taher Azar, K.Renuga Devi, “**Rough set theory with Jaya optimization for acute lymphoblastic leukemia classification**”, **Springer, Neural Computing and Applications**, pp. 1-20 ,2018. (Indexing : SCI, SCOPUS, Google Scholar)
3. K.Renuga Devi, H.Hannah Inbarani,“ **Motor Imagery Classification based on Variable Precision Multigranulation Rough Set and Game Theoretic Rough Set**”, **Springer Medical Imaging in Clinical Applications Algorithmic and computer based approaches: Studies in Computational Intelligence**, Volume 651,pp. 153-174, 2016. (Indexing : SCOPUS, Google Scholar)
4. Ahmad Taher Azar, H.Hannah Inbarani, K.Renuga Devi, “**Improved dominance rough set-based classification system**”, **Springer, Neural Computing and Applications**, Volume 27, Number 1, pp. 1-18 ,2016. (Indexing : SCI, SCOPUS, Google Scholar)

5. K.Renuga Devi, H.Hannah Inbarani, **“Motor Imagery Classification based on Variable Precision Multigranulation Rough Set”**, Springer, **Advances in Intelligent Systems and Computing**, Volume 412, pp. 145-154, 2016. (Indexing : SCOPUS, Google Scholar)
6. K.Renuga Devi, H. Hannah Inbarani, **“Modified Decision Making Rough set Classification for Cardiac Arrhythmia”**, **International Journal of Applied Engineering Research**, Volume 10, Number 9 (2015), pp. 8327-8333. (Indexing : Google Scholar)
7. K.Renuga Devi, H. Hannah Inbarani, **“Dominance based rough set for ECG Signal Classification”**, **Journal of Computer Science and Applications**, ISSN 2231-1270, Volume 6, Number 1 (2014), pp. 9-14.

PAPERS PRESENTED IN SEMINARS/ CONFERENCES/ NATIONAL/ INTERNATIONAL

1. Participated and Presented a paper entitled **“Hybrid Neighborhood based Decision Theoretic Rough Set Under Dynamic Granulation ”** in **International conference on Innovations in Electrical Information and Communication Engineering** Organized by Kongunadu College of Engineering and Technology on 24.03.2017-25.03.2017.
2. Participated and presented a paper entitled **“A Novel Method with Variable Precision Multigranulation Rough Set and Jaya Algorithm for Motor Imagery Classification”**, **International Conference on Advanced Computing and Communication Systems**, organized by Sri Eshwar College of Engineering, Coimbatore from 06.01.2017-07.01.2017.
3. Participated and Presented a paper entitled **“Motor Imagery Classification based on Variable Precision Multigranulation Rough Set”** in **International conference on Computational Intelligence, Cyber Security and Computational Models** Organized by PSG College of Technology, Coimbatore on 17.12.2015-19.12.2015
4. Participated and presented a paper entitled **“Modified Decision Making Rough Set Classification for Cardiac Arrhythmia”**, two days **International National Conference on Engineering Technology and Science (ICETS 2015)**, organized by Department Of Civil, CSE, ECE, EEE, Mechanical Engg and S&H, Muthayammal College Of Engineering, Rasipuram from 05.03.2015-06.03.2015.
5. Participated and presented a paper entitled **“Dominance based rough set for ECG Signal Classification”**, two days **National Conference on Mining, Internetworking and Data Security 2014 (MINDS 2014)**, organized by Department of Computer Science and Engineering, Alagappa University, Karaikudi-630003 from 27.03.2014-28.03.2014.

PARTICIPATION IN SEMINAR/ WORKSHOP/FDP

1. Participated in **Internal Quality Assurance Cell** sponsored Seminar entitled **“Role of ICT in Quality Sustenance and Enhancement in Higher Education”** organized by Periyar University on 14.12.2015.
2. Participated in two days workshop entitled **“Wavelets: theory and applications to image processing using MATLAB”** Organized by Kongu College of Engineering, Perundurai on 30.09.2015 to 01.10.2015.

3. Participated in two days faculty development programme on “**ARM Processor Embedded Systems**” conducted at Sudharsan Engineering College, Pudukottai organized by pantech proEd pvt.Ltd on 05.06.2015 and 06.06.2015.
4. Participated in the one week “**Faculty Development Programme (FDP) on Digital image processing 2013**” sponsored by **TEQIP** in Government college of Engineering, Salem-11 from 04.11.2013 to 10.11.2013.

PATENT AND COPYRIGHT PUBLISHED

S. No.	Patent No	Patent Title	Date of Registration	Patent Type
1	202023104053	AI based Security Monitoring System for Construction Sites	19.07.2023	German
2	6315824	Processing device for motor imagery classification in Brain Computer Interfaces	07.10.2023	UK
3	6318331	Router	23.10.2023	UK
4	6327478	A Machine for the Anti HIV-1 Peptide Classification	27.11.2023	UK

S. No.	Copyright No	Copyright Title	Date of Registration
1	SW-18029/2024	A Novel hybridization techniques Neighborhood based decision theoretic rough set under dynamic granulation for EEG Classification	01.01.2024

AREA OF SPECIALIZATION

- ☐ Data Mining
- ☐ Python
- ☐ Data Structure
- ☐ Database Management System
- ☐ Big Data Analytics

EDITORIAL DETAILS

Editor of **International Journal of Computational Intelligence and informatics**
Volume 5, No 1, June 2015 with online ISSN:2349-6363 and offline ISSN:2231-0258 indexed in Google Scholar

TRAINING PROGRAMME CONDUCTED

e-District Training Programme Certificate for Conducting

- i) Training on “Public Distribution System” on 30/3/2017
- ii) Training on “Social Welfare Schemes” on 06/04/2017
- iii) Training on “Jeevan Pramaan” on 30/03/2017

COURSE COMPLETED

Basics of python offered by infosys springboard on 04/07/2024

Object Oriented Programming using python offered by infosys springboard on 04/07/2024

Digital Training on Microsoft Office 365 Productivity Suite Offerings Advance Course offered by Naan Mudhalvan in partnership with Microsoft on April 11, 2023

Digital Training on Microsoft Office 365 Productivity Suite Offerings Beginners Course offered by Naan Mudhalvan in partnership with Microsoft on April 05, 2023

AWARDS AND HONORS

ANNA UNIVERSITY RANK HOLDER CERTIFICATE

Certificate awarded by **Anna University** in which I have secured overall 23rd rank in MCA Degree Examinations held by Anna 'university.

CERTIFICATE OF MERIT

Certificate awarded by **PSNA COLLEGE OF ENGINEERING and TECHNOLOGY**, for my academic excellence in MCA degree.

PROJECTS IMPLEMENTED

Certificate awarded by **RAILWAY PROTECTION FORCE southern railway Madurai division** for the automation of Railway Protection Force employee details and cases handled by them

CONTACT INFORMATION

- Office Hours: 10 to 5
- Office Phone: 04286 - 221152
- Email: nkrgacin@rediff.com
- Website: <https://www.nkrgacw.org/>