National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

Dr. S.Saroja was born on 17-07-1988 in Tamil Nadu, India. She obtained her B.Tech (Information Technology) from Anna University in 2009 by Securing 32nd University Rank. She completed her M.E. degree (Computer Science and Engineering) from Anna University in 2011 by Securing an 8th University Rank. She completed her Ph.D. in the area of Multiprocessor Scheduling at Anna University, Chennai 2020. She worked as Assistant Professor at Mepco Schlenk Engineering College, Tamil Nadu from June 2011 – September 2022. She attended 2 months summer research fellowship programme sponsored by the Indian Academy of Sciences, Bangalore at the Indian Institute of Technology, Ropar during May – June 2015 and May – June 2018. She has published 4 book chapters, 14 research papers in reputed international journals, and 11 international conferences. She is a life member of ISTE and the Computer Society of India.

To Know More about her Research:

Google Scholar Link: https://scholar.google.com/citations?hl=en&user=XPcluDIAAAAJ

ORCID ID:https://orcid.org/my-orcid?orcid=0000-0002-7418-7301

1.	Name:	Dr.S.SAROJA
2.	Designation:	Assistant Professor
3.	Office Address:	Department of Computer Applications, NIT Trichy
4.	Telephone (Direct) (Optional):	
5.	Email (Primary): saroja@nitt.edu	Email (Secondary): activeroja@gmail.com
6.	Field(s) of Specialization:	Multiprocessor Scheduling, Multi-Criteria Decision Making

7.   Employment Profile

Job Title	Employer	From	To
Assistant Professor, Department of	NIT Trichy	07.10.2022	Present

Computer Applications			
Assistant Professor, Department of Information Technology	Mepco Schlenk Engineering College, Sivakasi	15.06.2011	30.09.2022

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University	2020	NA	Information and Communication Engineering
M.E	Anna University	2011	First Class with Distinction	Computer Science and Engineering
B.Tech	Anna University	2009	First Class with Distinction	Information Technology
HSC	State Board	2005	First Class with Distinction	Maths, Physics, Chemistry, Biology
SSLC	State Board	2003	First Class with Distinction	Tamil, English, Maths, Science, Social

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2009	University Rank Holder - UG	Anna University
2011	University Rank Holder - PG	Anna University

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2018	Summer Research Fellowship	Indian Academy of Science, IIT ROPAR	May 2018	July 2018
2015	Summer Research Fellowship	Indian Academy of Science, IIT ROPAR	May 2015	July 2015

13. Details of Academic Work
    (i) Curriculum Development - NIL
    (ii) Courses taught at Postgraduate and Undergraduate levels - NIL
    (iii)Projects guided at Postgraduate level -NIL
    (iv)Other contribution(s) -NIL

14. Details of Major R&D Projects NIL

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided NIL

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
01.08.2019-31.09.2019	Introduction to Parallel Programming in OpenMP	National	Participant	IIT Madras	Online
01.01.2019-30.04.2019	Introduction to R software	National	Participant	IIT Madras	Online
12.12.2018-17.12.2018	Deep Learning: Theory and Practice	National	Participant	IIT Varanasi	Online

03.08.2017-07.09.2017	Foundation Program in ICT for Education	National	Participant	IIT Bombay	Online
01.01.2017-30.03.2017	Programming Data Structures and Algorithms using Python	National	Participant	IIT Madras	Online
30.06.2014-05.07.2014	Computer Networking	National	Participant	IIT Bombay	Online
16.06.2014-21.06.2014	Computer Programming	National	Participant	IIT Bombay	Online
11.06.2012-22.06.2012	Network Programming and Security Engineering	National	Participant	CDAC	Hyderabad

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Machine Learning for Infotainment Systems	National	06/12/2021 – 08/12/2021	Coordinator	Mepco Schlenk Engineering College
Blockchain Technology	National	17/08/2020 – 21/08/2020	Coordinator	Mepco Schlenk Engineering College
Machine Learning And Deep Learning For Real Time Stream Analytics	National	11/11/2019-22/11/2019	Coordinator	Mepco Schlenk Engineering College
Machine Learning Algorithms for IoT Applications	National	06/05/2019-08/05/2019	Coordinator	Mepco Schlenk Engineering College
Big Data Stream Analytics	National	14/05/2018 – 16/05/2018	Coordinator	Mepco Schlenk Engineering College

18. Invited Talks delivered

Topic	Date	Inviting Organization
Blockchain Use cases	07.09.2022	VVV College for Women
Blockchain Technology	04.03.2022	IET Sivakasi center
Blackbox testing techniques and JUnit	28.11.2017	Mepco Schlenk Engineering College
Optimization Techniques	06.12.2016	Mepco Schlenk Engineering College
Internetworking	17.12.2014	Ramco Institute of Technology

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	CSI	I1124446 - 2013
Life Member	ISTE	LM83804 - 2012

20. Academic Foreign Visits NIL

Country	Duration of Visit	Programme

21. Publications

 (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
Sikkandar, Haseena & Priya, Kavi & Saroja, S. & Rengaraj, Madavan & Muhibbullah, Md & Subramaniam, Umashankar.	Moth-Flame Optimization for Early Prediction of Heart Diseases	Computational and Mathematical Methods in Medicine	DOI: 10.1155/2022/9178302		2022
Dr.S.Haseena, Dr.S.Saroja, Dr.T.Revathi	A fuzzy approach for multi criteria decision making in diet plan ranking system using	Neural Computing and Applications		1-14	2022

	cuckoo optimization				
Sikkandar, Haseena & Saroja, S. & Rengaraj, Madavan & Karthick, Alagar & Pant, Bhaskar & Merine, Melkamu.	Prediction of the Age and Gender Based on Human Face Images Based on Deep Learning Algorithm	Computational and Mathematical Methods in Medicine	DOI: 10.1155/2022/1413597		2022
Saroja, S. & Rengaraj, Madavan & Sikkandar, Haseena & Pepsi, Blessa & Karthick, Alagar & Vinayagam, Mohanavel & Muhibbullah, Md.	Human Centered Decision Making for Covid-19 Testing Center Location Selection – Tamil Nadu A Case Study	Computational and Mathematical Methods in Medicine	DOI: 10.1155/2022/2048294		2022
Rengaraj Madavan, Subburaj Saroja, Alagar Karthick, Srinivasan Murugesan, V Mohanavel, P Velmurugan, Sami Al Obaid, Saleh Alfarraj, S Sivakumar	Performance analysis of mixed vegetable oil as an alternative for transformer insulation oil	Biomass Conversion and Biorefinery		1-6	2022
Subburaj Senthilkumar, Alagar Karthick, R Madavan, A Arul Marcel Moshi, SR Sundara Bharathi, S Saroja, C Sowmya Dhanalakshmi	Optimization of transformer oil blended with natural ester oils using Taguchi-based grey relational analysis	Fuel	288	119629	2021
Subbaraj, Saroja & Thiyagarajan, Revathi & Rengaraj,	A smart fog computing based real-time secure	Journal of Ambient Intelligence and	DOI: 10.1007/s12652-021-03354-y		2021

Madavan.	resource allocation and scheduling strategy using multi-objective crow search algorithm	Humanized Computing			
Saroja Subbaraj, Revathi Thiyagarajan	Performance oriented task-resource mapping and scheduling in fog computing environment	Cognitive Systems Research	70	40-50	2021
Dr.Sujatha Balaraman, Dr.R.Madavan, Mrs.Vedhanayaki, Dr.S.Saroja, Dr.M.Srinivasan, Dr.Albert Alexander Sonier	Fault Diagnosis and Asset Management of Power Transformer Using Adaptive Boost Machine Learning Algorithm	IOPIOP Conference Series: Materials Science and Engineering	1055		2021
Subbaraj, Saroja & Thiagarajan, Revathi & Rengaraj, Madavan.	Multi-objective league championship algorithm for real-time task scheduling	Neural Computing and Applications.	DOI: 10.1007/s00521-018-3950-y.		2020
Rengaraj, Madavan & Saroja, Subbaraj	Decision Making on State of Transformers based on Insulation Condition using AHP and TOPSIS methods	IET Science, Measurement & Technology	DOI: 14. 10.1049/iet-smt.2018.5337		2020
Dr.S.Saroja, Dr.T.Revathi	Hybrid dual-objective parallel	Cluster Computing			2019

	genetic algorithm for heterogeneous multiprocessor scheduling				
Dr.S.Saroja, Dr.T.Revathi, Dr.Nitin Auluck	Multi-Criteria Decision-Making for Heterogeneous Multiprocessor Scheduling	International Journal of Information Technology & Decision Making	Volume No: 17, Issue No: 5;	PageNo: 1399-1427	2018
Rengaraj, Madavan & Balaraman, Sujatha & S, Saroja.	Multi Criteria Decision Making Methods for Ranking the Liquid Insulation System Based on its Performance Characteristics with Anti-Oxidants under Accelerated Aging Conditions	IET Generation, Transmission & Distribution	DOI: 11. 10.1049/iet-gtd.2017.0350.		2017

(B) Conferences/Workshops/Symposia Proceedings

#	Month-Year	Authors	Publication Title	Conference Name
1	Mar-2019	Miss.A.Archana, Miss.A.Gohulavani, Miss.A.Madhangi, Dr.S.Saroja	Inter And Intra Domain Based Resources Partitioning For Fog Computing –Enabled Industrial Internet Of Things	International Conference on Contemporary Engineering and Technology 2019
2	Mar-2018	Dr.S.Saroja, Miss.Aiswarya, Miss.Gomathi, Miss.Jothisha	Flowshop Scheduling using Hybrid Monkey Search Algorithm	International Conference on Electronics, Communication and Aerospace Technology
3	Mar-2018	Dr.S.Saroja,	Heterogeneous	International

		Miss.Deepika, Miss.Gayathri, Miss.Gomathi Pappa	Multicore Job Scheduler for Map Reduce Applications	Conference on Electronics, Communication and Aerospace Technology
4	Mar-2018	Mr.S.Muthukumar, Dr.S.Saroja, Miss.Harini, Miss.Priya dharshini, Miss.Ramya	Energy Constrained Reliability Aware Scheduling for real time systems	International Conference on Electronics, Communication and Aerospace Technology
5	Mar-2017	Miss.Sinthiya, Dr.S.Saroja	Dynamic workflow Scheduling for Mulit-Occupant Cloud Environment", 2017 International Conference on Computing Technologies	International Conference on Computing Technologies
6	Oct-2016	Miss.N.Sinthya, Dr.S.Saroja	Active fault tolerant clustering mechanism for scientific workflows	International Conference on Computation, Communication and Innovation
7	May-2016	Miss.Selvamani, Dr.S.Saroja	Categorizing long and short range pixels for image segmentation	nternational Conference on Recent Trends in Engineering and Technology
8	Jan-2016	Miss.Selvamani, Dr.S.Saroja	Image segmentation by data driven objectness	International Conference on Computing Technologies and Intelligent Data Engineering
9	Jan-2015	Mrs.Immaculate Jansi Rani, Dr.S.Saroja	Modified Energy-Aware Rolling Horizon Algorithm for Scheduling of Cloudlets	International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) - 2015
10	Apr-2013	Dr.S.Saroja, Miss.Jeyaprabha, Miss.Mathu Bala, Miss.Parvatha Meenatchi	Recognizing copy – move falsification in an Image and Recovery of Transformation	International Conference on Computational Intelligence
11	Mar-2011	Dr.S.Saroja, Dr.K.Muneeswaran	Improving Quality of Print – Scan Images	International Conference on Emerging trends in Electrical and

				Computer Technology

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Dr.S.Saroja, Ms.S.Haseena, Ms.M.Blessa Binolin Pepsi	Smart Healthcare System Design: Security and Privacy Aspects	John Wiley Sons	2021	9781119791683
S. Vedhanayaki, Madavan Rengaraj, Sujatha Balaraman, S Saroja	Soft Computing in Data Analytics	Springer	2018	978-981-13-0513-9
Dr.T.Revathi, Dr.S.Saroja, Ms.S.Haseena, Ms.M.Blessa Binolin Pepsi	Histopathological Image Analysis in Medical Decision Making	IGI Global	2018	2327-9354