Name	: Dr. R. KAL	AIVANI		
Designation	: Assistant Pro	ofessor		
Department	: Computer Sc	: Computer Science		
Qualification	: M.Sc., M.Phil., M.Ed., Ph.D (CS), (Ph.D. Edn.)			
Experience	: Teaching:	17 Years	Research :	13 Years
Area of Specia	Area of Specialization(s) : Green Cloud Computing			
Email (Official ID)		: kalaivani.r@drngpasc.ac.in		



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Education	Mother Terasa Women's University, Kodaikanal	Pursuing
Ph.D.	Computer Science	CMS College of Science and Commerce, Coimbatore	2022
M.Ed	Education	IGNOU, New Delhi	2012
M.Phil.	Computer Science	Vinayaga Missions University, Salem	2009
M.Sc.	Computer Science	Bharathiar University, Coimbatore	2003
B.Sc.	Computer Science	Nehru Memorial College, Trichy	2001

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
DJP	Java	CSC Computer Education	2002

Grants Received

Event Title	Agency	Amount	Date
ICT tools workshop to Higher Secondary School Teachers	TNSCST	₹ 15,000	10.7.23
30 days Entrepreneurial Workshop on "Aari Work Designs"	NABARD Bank	₹ 1,50,000	04.2.23

Projects

Completed

Project Title	Agency	Amount	Duration
SEED Fund of UBA 1.0	UBA 1.0	₹ 50,000	10.08.18

Research Guidance

Programme	No. of Scholars		
	Completed	Pursuing	
M. Phil.	15	-	

Research Publications (Indexed)

International Conference

- S.Kumar, Dr. B. Raja, Initializing The Software Regression Test Pool Based On The Functional Dependency And Test Case Dependency, International Journal of Pure and Applied Mathematics, Vol. 118 No. 9 Special Issue, pp. 123-136, February 2018, ISSN: 1314-3395, (Indexed in SCOPUS).
- R.Kalaivani, Dr.V.Sujatha, Cloud Data Security System with Efficient and Reliable Multi-Key Management using Fully Homomorphic Encryption and AES Techniques", International Journal of Design Engineering, Issue: April 2021 ISSN NUMBER: 0011-9342 (Indexed in SCOPUS).
- R.Kalaivani, Dr.V.Sujatha, Energy Efficient and Load Balanced Optimal Resource Allocation Framework for Cloud Environment using ML based Meta Heuristic Techniques, International Journal of Mechanical Engineering, EngineeringIssue: February 2022 ISSN NUMBER:0974-5823 (Indexed in SCOPUS).
- R.Kalaivani, Comparative Analysis of Various Clustering Algorithms based on Green Computing Perspective, Coimbatore Information of Information Technology, Issue: April 2013 DOI: BB042013004
- R. Kalaivani, A Study on fol-mine-first occurrence mine, International Journal of Contemporary Research in Computer Science and Technology ISSN Certified Vol. 2, Issue 11, Nov 16
 R. Kalaivani, Design & Development of an interface to Detect the Brain Tumor, International Journal of Contemporary Research in Computer Science and Technology ISSN: 2321 0613 Certified Vol. 2, Issue 11, Nov 2016

National Conference

• R. Kalaivani "Classification Algorithms for Lung Cancer Prediction", National Conference VLB Janakiammal college of art and Science, 23.1.17

- R. Kalaivani "Energy- Efficient Multi-Hop Packet Transmission using Green Modulation in Wireless Sensor Networks" in the CIIT & ICTACT Sponsored National Conference on Green IT, organized by Department of Computer Science, PSGR Krishnammal College for women, Coimbatore. ISBN: 978-09—888-4210-6.
- R. Kalaivani "Comparative Analysis of Various Clustering Algorithms based on Green Computing Perspective" in the CIIT & ICTACT Sponsored National Conference on Green IT, organized by Department of Computer Science, PSGR Krishnammal College for women, Coimbatore. ISBN: 978-09—888-4210-6.
- R. Kalaivani "Development of Urban Areas using Remote Sensing with Artificial Intelligence" National Level conference on Advanced Trends in Information Technology Organized by Dr.N.G.P college of arts and science, Coimbatore on 21st February2013 ISBN:938054317-4
- R. Kalaivani "A Comparative study of Face Recognition using Stereo Matching Algorithm" National Level conference on Challenges in Computational Research and Applications Organized by Sree Saraswathi Thyagaraja College, Pollachi on 4th September 2013 ISBN: 978-93-82570-17-2
- R. Kalaivani "Classification of Malware Based on Data Mining "National Level conference on Innovative Trends in Information Technology Organized by KG College of Arts and Science, Coimbatore on 8th Feb 2014, ISBN: 978-93-83459-01-8
- R. Kalaivani "SE Code Optimization Using Data Mining Techniques" National Level conference on New Innovation in Computer Science Organized by Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore on 28th Feb 2014 ISBN: 978-0-9894254-6-9
- R. Kalaivani "Web Mining A Review" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2
- R. Kalaivani "Image Resolution Enhancement by using Discrete and Wavelet Decomposition" National Level Conference on Information and Image Processing

Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 **ISBN: 978-93-84743-48-2**

- R. Kalaivani "Ethernet Technology in Distributed Environment" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2
- R. Kalaivani "Blur Face Enhancement via Theoretic Set-Recognition" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2

Book Publications

 "Playing Smart Artificial Intelligence" published in the year January 2022, Published by NOTION PRESS INDIA, Chennai – 31

Patent Published

- Artificial Intelligence based Video Surveillance System using Open CV and Deep Learning
- Automative ERP System over Block Chain Technology
- Industry 4.0 Based ML and Internet of Things for Observing and Safeguard the Energy Meter over Internet

Paper Presentation

International Conference

- "A Review on Green cloud Computing" organized by Nehru college of arts and science & International conference on "Innovations in Computer Science and Information Technology-ICICSIT'19 on 22nd& 23.10.2019.
- "Evolution of a dual level gene selection techniques that integrate a novel composite using the cuckoo optimization" Organized by Department of Computer studies, Sankara college of Science & International Conference on "NEXT GENERATION COMPUTING TECHNOLOGIES" on 12.10.17.

- A Comparative study on "Healthcare system using Data mining Prediction Techniques" International Conference, Pioneer College of Arts and Science 6.1.17.
- "Knowledge Management in the Learning Economy" International conference on Emerging Trends and Issues in Management Practices- A Business Scenario in Business Administration CA Organized Sankara College Of Science and Commerce, Coimbatore on 25th Aug 2014.
- "Role and Application of Genetic Algorithm using Data Mining Techniques" International Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 26th February 2014 ISBN: 978-93-83459-15-5.
- "Text Mining A Review" International Level conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 26th February 2014 ISBN: 978-93-83459-16-2.
- "A Study on Process, Methods, Past and Present Techniques in Data Mining" International Level conference on Advances in Information Technology and Networking" Organized by Dr. G R Damodharan College of Science, Coimbatore on 20th February 2015 ISBN: 978-81-927985-5-4.
- "Security Issues and Data Protection in Cloud Computing" International Level conference on Advances in Information Technology and Networking" Organized by Dr. G R Damodharan College of Science, Coimbatore on 20th February 2015 ISBN: 978-81-927985-5-4.

National Conference

- "Classification Algorithms for Lung Cancer Prediction", National Conference VLB Janakiammal college of art and Science, 23.1.17
- "Energy- Efficient Multi-Hop Packet Transmission using Green Modulation in Wireless Sensor Networks" in the CIIT & ICTACT Sponsored National Conference on Green IT,

organized by Department of Computer Science, PSGR Krishnammal College for women, Coimbatore. **ISBN: 978-09—888-4210-6.**

- "Comparative Analysis of Various Clustering Algorithms based on Green Computing Perspective" in the CIIT & ICTACT Sponsored National Conference on Green IT, organized by Department of Computer Science, PSGR Krishnammal College for women, Coimbatore. ISBN: 978-09—888-4210-6.
- "Development of Urban Areas using Remote Sensing with Artificial Intelligence" National Level conference on Advanced Trends in Information Technology Organized by Dr.N.G.P college of arts and science, Coimbatore on 21st February2013 ISBN:938054317-4.
- "A Comparative study of Face Recognition using Stereo Matching Algorithm" National Level conference on Challenges in Computational Research and Applications Organized by Sree Saraswathi Thyagaraja College, Pollachi on 4th September 2013 ISBN: 978-93-82570-17-2
- "Classification of Malware Based on Data Mining "National Level conference on Innovative Trends in Information Technology Organized by KG College of Arts and Science, Coimbatore on 8th Feb 2014 ISBN: 978-93-83459-01-8
- SE Code Optimization Using Data Mining Techniques" National Level conference on New Innovation in Computer Science Organized by Dr. SNS Rajalakshmi College of Arts and Science, Coimbatore on 28th Feb 2014 ISBN: 978-0-9894254-6-9
- "Web Mining A Review" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2

- "Image Resolution Enhancement by using Discrete and Wavelet Decomposition" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2
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- "Blur Face Enhancement via Theoretic Set-Recognition" National Level Conference on Information and Image Processing Organized by Sankara College of Science and Commerce, Coimbatore on 27th February 2015 ISBN: 978-93-84743-48-2

Participation in Seminars

- National Seminar on Perspectives in Research Methodology, Sankara College of Science and Commerce on 4/3/17
- Two days Workshop on Research Methodology at Mother Terassa Women's University, Kodaikanal from 02.01.2020 to 03.01.2020

Participation in Workshop

- Research article writing on 29.02.2020
- Big data and cloud computing from 10.03.2020 to 11.03.2020
- Intelligent Learning Hackathon2020 from 08.01.2020 to 09.01.2020
- Bharathiya Economic Model on 23.04.2020
- Life design on 27.05.2020
- Python Programming workshop from 18.05.2020 to 22.05.2020
- Flipped Learning A new pedagogy on 07.05.2020
- Perspectives in Research Methodology on04.03.2017
- Intellectual Property Rights on 21.07.2018
- Impact of Health and environment among women on 11.04.2019

- Professional Ethics & Plagiarism and Strengthening research for quality publications on 31.08.2019
- How to tap funding agencies? On 02.03.2019
- Creating awareness towards women in environment sustainability on 28.03.2019-29.03.2019
- Solid waste management Training Programme, organized by ITC on 10.08.2017
- Multimodal Teaching Methods for engaging Gen Y and Gen Z students on 29.11.2017
- Data Mining-Rapid Miner Tool, organized by PSG College of Technology on 16th March 2013.
- State Level Workshop on "Tools for Documentation" organized by Sankara College of Science and Commerce on 5th Oct 2013.

Participation in Orientation Programme / Short Term Courses

- 7 days Residential NSS Orientation Programme, Avinashilingam University, Nov 2015.
- 7 days Residential Empannelled Training Course, Rajiv Gandhi National Youth Development, Sriperamputhur, Nov 2016.
- Launching of Unnat Bharat Abhiyan 2.0 & Orientation Programme, AICTE Auditorium, NEW Delhi, April 2018.

Conference / Seminar / Workshop Organized

- Organizing Secretary "Artificial Intelligence and Machine Learning Algorithms" collaboration with IIT, Bangalore
- Organizer, INSPIRE AWARD 2018, Government School students Competitions in association with School of Education Department, Govt. of Tamilnadu Coimbatore, Government of Tamilnadu,
- Organizer, Sankara Academy of Excellence for provide various competitive exams training inaugurated by Shri.Periayya., IG of Coimbatore and invited many IAS, IAAS, IPS officers and Various Government officials
- Organizer, 30-day Entrepreneurial AARI Work workshop funded by NABARD Bank. Inaugurated by Shri Krandhi Kumar Pati, District Collector was inaugurated.
- Organizer, Two months MTS exam training to all the final year students. Inaugurated by Mr.Karunakaran,Dy Director of District Employment office.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- Chief Guest & delivered speech of "Dr.APJ Abdul Kalam 2020" organized by IQAC & NSS cell of Pioneer College of Science and Commerce on 13.10.2020
- Guest lecture on "The Psychology of English Language in the age of Technology "Organized by Mother Teresa Women's University on 24.02.17
- Guest lecture on "Ethics of Information Technology towards Education" Organized by Mother Teresa Women's University on 23.09.17
- Chief Guest of NSS Day celebration at "Ramalinga Sowdambika College of Science and Commerce" on 22.09.2018
- Workshop on "Recycling Art "at Sree Narayana Guru college on 23.09.2017
- Guest lecture on "E-Commerce "Organized by SNMV arts and Science college on 23.09.2017
- Guest lecture on "Women's Health and its importance" Organized by Nirmala College for women on 23.09.17

Member in BoS

• Board of Computer Science, Sankara College of Science and Commerce, Coimbatore, 2022

Awards / Honors

Awards / Honors	Category	Agency / Institute	Year of Award
Best Auditing Coordinator	Eco, Green and Energy Auditing coordinator	Sankara College of Science & Commerce	2022
Certificate of Appreciation	office (Central Govt.) School	of School Education,	07.01.2019
Outstanding Educator	Professor	South India Women Achiever's Award Team &Chennai	22.12.2019
Best Community Service (Public Library Construction worth ₹ 4L)	Community Service	Lion's club of Elite, Coimbatore	12.08.2019
UBA Scheme of MHRD	Co-Ordinator	MHRD & IIT New Delhi (Grant ₹.50,000 on 10.08.2018)	25.08.2018

Awards / Honors	Catagomy	Agonov / Instituto	Year of	
Awarus / Hollors	Category	Agency / Institute	Award	
Out Standing Effort & Team	Faculty Special Appreciation	Sankara College of Science &	2015-2016	
Co-Ordination	(As a team)	Commerce	2013-2010	
Out Standing Effort & Team	Faculty Special Appreciation	Sankara College of Science &	2017-2018	
Co-Ordination	(Individual)	Commerce	2017-2018	
100% Result Achieving	Assistant Professor	Sankara College of Science &	2010, 2011,	
Faculty Award		Commerce	2016	
Out Standing Effort for	Assistant Professor	Sankara College of Science &	2015	
NAAC Work		Commerce	2015	
Faculty of the Month (Usage		Sankara College of Science &	2014	
of ICT Technology)	Assistant Professor	Commerce	2014	

Recognition National / International

Nature of Recognition	Organization / Institution	Year
Certificate of Appreciation- Contingent	South Zone – Pre Republic-Day Parade Camp	
Leader of Tamilnadu, Puducherry& Andaman	Organizers, Ministry of Youth Affairs, Govt. of	2017
& Nicobar Islands	India	