

PROFILE

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Professional Qualification

Doctor of Philosophy (Year 2017-2022)

State Level Eligibility Test (Year 2017)

Master of Philosophy (Year 2007-2008)

Master of Computer Applications (Year 2000-2003)

Bachelor of Physics (Year 1995-1998)

Awards and Recognitions	Publications			Paper Presented	Workshop / Seminar/FDP Organized
	Books	Book Chapters	Journals		
Award – 4 Recognition – 6	3	16	14	19	19

Awards and Recognitions

- Received “**International Leadership Awards**” on 17-07-2022 by EDULEADERS.
- Received “**National Women Excellence Award Year-2022**” by the National Academy for Art and Education, Pune, Maharashtra
- Honored as a **Session Chair** in the International Conference on “**International Conference on Artificial Intelligence and Technology in Academia and Profession**” on 25-12-2024 & 26-12-2024.
- Honored as a **Session Chair** in the International Conference on “**Public Health and Technology**” on 25-12-2023 & 26-12-2023.
- Honored as a **Session Chair** in the International Conference on “**Social Science and Business**” on 16-12-2023 & 17-12-2023.
- Honored as a **Session Chair** in the International Conference on **Post COVID-19 Paradigm Shift**

in **Social Science, Technology and Public Health** on 23-11-2022 to 25-11-2022.

- Honored as a **Session Chair** in the International Virtual Conference on **Challenges in Education, Business and Technology** on 20-02-2022.
- Honored as a **Session Panel** in the International e-Conference on **Microeconomic Impacts of COVID-19 Pandemic** on 02-10-2021 and 03-10-2021.
- Abstract Listed and Recognized in Research Recognition & Listing: Listing Category – **Research Excellence**, Membership Eligibility: **Professional Membership**.
- Abstract Listed and Recognized in Research Recognition & Listing: Listing Category –**Young Researcher**, Membership Eligibility: **Professional Membership**.
- Honored with the “**Excellence in Action**” award for the year 2014-2015 by Alagappa University Study Center, SIS Computer Education, Pollachi.
- Honored with the “**Best Performer Award**” for the year 2015-2016 by the College Management.

Books Published

- Published a Book “**Crafting Code Canvas: Web Wonders**”, by Eliva Press, June 2024, ISBN: 978-99-993191-6-4.
- Published a Book “**Data to Wisdom: A Comprehensive Guide**” by Taneesha Publications July 2023, ISBN: 978-81-959602-7-9.
- Published a Book “**Java: Novice to Experts**” by Lambert Publication, May 2021, ISBN: 978-620-3-85486-2.

Book Chapters Published

S.No	Month & Year	Title of the Book	Chapter	Publisher	ISBN	Page No
1.	08/2024	Applications of Artificial Intelligence in commerce and Mathematics	Graph Based Synthetic Data Generation for AI: A Comprehensive Review”	Beyond Line Publishers	978-93-95659-18-5	137-144
2.	09/2023	Data Science and Interdisciplinary Research : Recent Trends And Applications	Filtering Techniques for removing noise from ECG Signals	Bentham Science Publishers	978-981-5079-00-5	149-171
3.	09/2023	Essentials of Positive	Classroom Strategies for	Shanlax Publications	978-81-19337-28-6	219-222

		Psychology	Fostering Students' Emotional Health and Well-Being			
4.	07/2023	Fintech and Cryptocurrency	A Study on the Influence of Personality on Savings and Investment in Cryptos	Scrivener Publishing - Wiley	978-1-119-90481-6	251-276
5.	05/2023	IoT enabled Convolutional Neural Networks: Techniques and Applications	Classification of Myocardial Infarction in ECG Signals Using enhanced Deep Neural Network Technique	River Publishers Taylor & Francis Group	978-10-0087-969-8	179-212
6.	11/2022	Future Education in Teaching and Learning	Miracles of Sensory Organs in the Process of Learning and Remembering	Shanlax Publications	978-93-95422-21-5	123-128
7.	09/2022	Transformation of Teaching-Learning Strategies in the Digital Era	Empowering Quality Learning through Outcome-Based Education	Shanlax Publications	978-93-95422-04-8	116-123
8.	09/2022	Transformation of Teaching-Learning Strategies in the Digital Era	An overview of Augmented Reality	Shanlax Publications	978-93-95422-04-8	138-143
9.	2022	Principles and Methods of Explainable Artificial Intelligence in Healthcare	Framework for Classifying Alzheimer's Disease Using Machine Learning	IGI Global Publisher of Timely Knowledge	978-16-68437-91-9	
10.	2022	Principles and Methods of Explainable Artificial	Drug discovery with XAI Using Deep Learning	IGI Global Publisher of Timely Knowledge	978-16-68437-91-9	

		Intelligence in Healthcare				
11.	2022	Trends on Consumer Buying Behaviour	Consumer Behaviour Paradigm: Special Reference to Online Shopping	Anjuman Publications	978-93-91531-68-3	7-22
12.	2022	Reinventing Gender Equality : Replacing Bias with Inclusion	Role of Education in Women Empowerment	River Publications	978-93-5515-291-6	49-52
13.	2022	Essentials of Teaching - Pedagogy	Artificial Intelligence: Way forward to New Revolution in Education	Shanlax Publications	978-93-93737-85-4	145-152
14.	2022	Essentials of Teaching - Pedagogy	Mobile Apps for Teaching – Learning	Shanlax Publications	978-93-93737-85-4	123-127
15.	2021	Cyber Security	Protection of Women and Children in Cyber World	Shanlax Publications	978-93-91373-16-0	61-67
16.	2021	Prospects & Challenges of Social Media Advertising	Social Media Advertising: An Amazing Technology of 21 st Century)	Insc International Publisher	978 -1-956102-40-6	53-60

Publications

S.No	Journal	Title	Impact Factor	ISSN Number/ DOI	Referred/ Scopus/ Web of Science	Page Number	Issue
1.	KMF	Socioeconomic impact of Covid-19 on household		https://doi.org/10.5281/zenodo.5796087		26-31	
2.	Journal of Pandemic	Towards Smart Health Care		https://doi.org/		65-74	2(1),

	Disaster and Recession			10.5281/ zenodo. 6499343			2022
3.	IJST	Deep Learning Methods in Classification of Myocardial Infarction by Employing ECG Signals	0.60	0974-5645	Web of Science Indexed	2823-2832	13(28), 2020
4.	IJCSE	Performance Evaluation of Routing for Wireless Sensor Network	3.802	2347-2693	UGC Care List	70-74	8(4), 2020
5.	IJEAT	Methodology of Filtering the Noise and Utilization of STEMI in the Myocardial Infarction	5.97	2249-8958	Scopus Indexed	4602-4606	9(1), 2019
6.	JASC	An Efficient Feature Selection Method for the Prediction of Myocardial Infarction	5.8	1076 – 5131	UGC Care List	905-913	6(6), 2019
7.	IJSRCSA MS	Review on Detection of Myocardial Infarction with Multilead Signal	0.534	2319-1953	UGC Care List		8(2), 2019
8.	IJSART	Analysis of Twitter Data using Hadoop Ecosystem	5.47	2395-1052	-	649-652	5(5), 2019
9.	ICTACT on Soft Computing	Missing Value Imputation and Normalization Techniques in Myocardial Infarction	0.131	2229 – 6956	UGC Care List	1655-1662	8(3), 2018
10.	IJRAR	Dengue Disease	5.75	2348-1269	UGC Approved	139-144	5(3), 2018

		Classification using Decision Tree Algorithm					
11.	<i>IJSRD</i>	Heart Disease Risk Prediction and Diagnosis using Machine Learning Algorithms	4.396	2321-0613	UGC Approved	2060-2063	5(6), 2017
12.	<i>IJESC</i>	A proficient Heart Disease Prediction Method using different Data Mining Tools	5.611	2321-3361	-	2676-2680	6(3), 2016
13.	<i>IJIRCCE</i>	Prediction of Heart Diseases using Data Mining Techniques	6.577	2320-9801	-	2161-2168	4(2), 2016
14.	<i>IJCSIT</i>	A Review on Prediction of Heart Diseases by Comparing Risk Factors in Data Mining	2.28	0975-9646	UGC Approved	396-398	7(1), 2016

Papers Presented at National/ International Seminars/ Conferences/ Workshops

S.No	Date	Title of the Paper Presented	Title of the Conference	Organised By
1.	25-12-2024 and 26-12-2024	Exploring the Impact of AI on Academic Excellence and Professional Advancement	Artificial Intelligence and Technology in Academia and Profession	Center for Academic & Professional Career Development and Research(CAPCDR).
	25-12-2023 and 26-12-2023	A Rare case Report of Hyperreactio luteinalis – an Ovar(y) reactiveness upshot	Public Health & Technology	Center for Academic & Professional Career Development and Research(CAPCDR).
2.	16-12-2023 and 17-12-2023	Issues and Challenges of Disability and Rehabilitation services in India	Social Science and Business	Center for Academic & Professional Career Development and Research(CAPCDR).

3.	03-11-2022 and 04-11-2022	Gandhiji's Perspective of NaiThalim – A Road Map for NEP 2020	Innovative Strategies & Practices in Teaching, Learning and Evaluation Process for Arts & Science Colleges towards NEP – 2022	NGM College, Pollachi.
4.	23-11-2022 to 25-11-2022	Post-COVID-19 Paradigm Shift in Social Science, Technology and Public Health	Revolution of Education Paradigm After COVID-19	Center for Academic & Professional Career Development and Research(CAPCDR).
5.	20-02-2022 and 21-02-2022	Digital innovation in education on a global scale During pandemic	International Virtual Conference on Challenges in Education, Business and Technology	Center for Academic & Professional Career Development and Research(CAPCDR).
6.	16-01-2022 and 17-01-2022	Towards Smart Health Care	International e-Conference on Changes State, Economy, Public Health and Society	Center for Academic & Professional Career Development and Research(CAPCDR).
7.	02-10-2021 and 03-10-2021	Socio Economic Impact on Covid-19 on Household	International e-Conference on Microeconomic Impacts of COVID-19 Pandemic	Center for Academic & Professional Career Development and Research(CAPCDR).
8.	25-08-2021	Image Mining Techniques in Skin Cancer Detection	International Conference on Computing and Intelligent System- ICCIS 21	Sri Krishna Aditya College of Arts and Science, Coimbatore.
9.	20-09-2019	Filtering of ECG Signal using Efficient Filter Technique	Developing Advanced Research & Computer Technology	KSG College of Arts & Science, Coimbatore.
10.	01-02-2019	Feature Selection Methods For Prediction of Risk in Myocardial Infarction	Emerging Research Trends in Computer Science and Technology	SNMV College of Arts & Science, Coimbatore.
11.	06-01-2018	An Empirical Study on Prediction of Myocardial Infarction using Data Mining Techniques	National Conference on Transforming India through Digital Innovations	Guru Shree Shantivijai Jain College for Women, Chennai.
12.	20-10-2016	E-Waste Management: Issues and Impacts	National Level Seminar on Eco-Waste Management & Nanobiology	Sri GVG Visalakshi College for women, Udumalpet.
13.	27-08-2016	Comparative study of Data Mining Techniques on Heart Disease Prediction	International Seminar on Emerging Trends in Information Technology	Bharathidasan College of Arts and Science, Erode.
14.	13-01-2012	Fuzzy Controls Traffic	National Level Seminar on Convergence of	Sree Ramu College of

			Database and Communication Technology	Arts and Science, Pollachi.
15.	06-09-2011	Innovative Method in Human-Machine Interaction	National Conference on Recent Trends and Advances in the Field of Information Technology (NCIT 2011)	Karpagam University, Coimbatore.
16.	30-07-2011	Adaptive and Intelligent E-Portfolio Architecture for Learning	International Conference on Advanced Computer Technology	JKKN Engineering College, Komarapalayam, Namakkal District.
17.	25.09.2010	Recent Trends in Fuzzy Sets	National Conference on Recent Trends in Fuzzy Sets	Navarasam Arts & Science College for Women, Erode.
18.	21.08.2009	Impact of Information Technology in Tourism	Issues and Trends in Sustainable Tourism	Sri G.V.G Visalakshi College for Women, Udumalpet.

Orientation and Refresher Programme

- UGC Sponsored Orientation Programme from 16-05-2006 to 12-06-2006 conducted by Academic Staff College, Bharathiar University, Coimbatore.
- Refresher Course on “**Recent Trends in Computer Science and Engineering: Refreshing the Young Minds**” from 10th March to 22nd March 2014 at Guru Nanak Dev Engineering College, Bidar-Karnataka.

Workshop / Inter-Collegiate/FDP Organized

- Organised One-Day Preparatory Workshop on “**LinkedIn Career Kickstarter**” in association with Face Prep, Focus 4D Career Education Pvt.Ltd, Coimbatore.
- Organised One-Day National Level Workshop on “**Augmented Reality and Virtual Reality**” in association with PANTECH E-LEARNING, on 23-11-2022.
- Organised One-Day online National Level Workshop on “**Robotics**” in association with PANTECH E-LEARNING.
- Organized One-Day State Level Seminar on “**Internet of Things**”, at Sri GVG Visalakshi College for Women, on 21-02-2020.
- Organized One-Day Workshop on “**Operating System Installation with Troubleshooting**”.

- Organized One-Day National Level Workshop on “**Internet Security–Changes and Challenges**” conducted by the Department of Computer Science, Computer Applications and Information Technology of Sri G.V.G Visalakshi College for Women on 26th September 2014.
- Organized One-Day National Level Lecture Workshop on “**Emerging Technology in Computing Immersion**” conducted by the Department of Computer Science, Computer Applications and Information Technology of Sri G.V.G Visalakshi College for Women on 15th February 2013.
- Organized Inter-Collegiate meet “ECLAT 13” conducted by the Department of Computer Science, Computer Applications and Information Technology of Sri G.V.G Visalakshi College for Women on 16th February 2013.

Online

- Organized One Day Faculty Development Programme on “Intellectual Property Rights-Special Focusing on Patenting” in association with KG College of Arts & Science, Coimbatore from 25-03-2024.
- Organized Five Days Faculty Development Programme on “**Machine Learning for Data Science**” in association with KG College of Arts & Science, Coimbatore from 17-07-2023 to 21-07-2023.
- Organised Five days Faculty Development Programme on “**Python 3.4.3**” in association with Spoken Tutorial, Bombay from May 1st to May 5th 2020.
- Organised Five days Webinar Series on “**Gateway for VUCA world**” from 23rd May to 27th May 2020.

Short Term Course

- Successfully completed the ISRO online course on “Basic Principles of Remote Sensing Technology” from 13-04-2020 to 25-04-2020 by SSM Institute of Engineering and Technology in association with ISRO Outreach Network Institute, IIRS, Dehradun.
- 12 days training Programme attended the topic “Data Science Foundation using R” from 06-04-2020 to 16-04-2020 conducted by 360Digi TMG, India.
- Successfully completed National Level Short Term Course on “Graphics Design” for Teachers with 99% Score, Organised by St.Mary’s college, Thoothukudi between 26-05-2021 to 31-05-2021.

Invited as a Guest

- Chief Guest for celebrating “**International Womens Day 2019**” titled “**Yadhumagi**” at Vidhyasagar College of Arts and Science, Udumalpet.

Resource Person

- Guest Lecture delivered to Department of Computer Science on “**AI as Technological Innovator for the Future**” on 18-11-2022 at Vidyasagar College of Arts and Science, Udumalpet.
- Delivered a topic on “**Real Time Applications of Data Structure**” on 02-11-2022 at KG College of Arts and Science, Coimbatore.
- Delivered a topic on “**Protection of Women and Youth against Cyber Crimes**” on 23-06-2021 at Nehru Arts and Science College, Coimbatore.
- Guest lecture delivered to the PG Department of Computer Applications on 19-10-2016 at Vidhyasagar College, Udumalpet. Topic : “**Internet of Things (IoT)**”
- Judge for the event, “**Forest Animal Protection**” – an oratory and Poem competition at RGM School, Udumalpet 31st July 2015.
- Resource person for the department of Economics with Logistics and freight Management on 24-12-2013. Title: “**Advanced PL/SQL.**”
- Resource person in an Extraordinary meeting held by “Indian culture and Women Studies Club” on 10-10 -2013. Topic: “**Women in Fostering Indian Culture.**”

Other Responsibilities

- Head of the Department from 2011 onwards.
- Board of Study Chairman from 2011 onwards.
- Academic Council Member from 2011 onwards.
- IBM Career Education Coordinator for 2 years.
- Computer Club convenor for 3 years.
- NSS Co-Opted Member for 1 year.
- Placement Officer for 2 years.
- IQAC member for 2 years.
- Planning Committee Member from 2016 onwards.
- Exam Committee member for 2 Years.
- Curriculum Committee Member from 2021 onwards.
- Digital Media Club Member from 2021 onwards.
- Research Committee Member for 2 years.
- Member of Alumni Association for 2 years.
- Member of College Union from 2023 onwards.

Personal Profile

Name : Dr. K.Manimekalai
Husband's Name : S.Bharathiselvan
Date of Birth : 03-06-1978
Qualification : MCA., M.Phil., SET., Ph.D
Marital Status : Married
Nationality : Indian
Languages Known : Tamil, English
Residential Address: 33- Chellamuthu Nagar,
ZaminUthukuli,
Pollachi – 642 004,
Coimbatore Dt.