

PROFILE

Dr. K. Manimekalai



Associate Professor & Head,
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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)

Awards and Recognitions	Publications			Paper Presented	Workshop / Seminar/FDP Organized
	Book	Book Chapters	Journals		
Award – 4 Recognition – 6	2	15	14	18	11

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 “**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.

Book Published

- 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.	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
2.	09/2023	Essentials of Positive Psychology	Classroom Strategies for Fostering Students’ Emotional Health and Well-Being	Shanlax Publications	978-81-19337-28-6	219-222
3.	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

4.	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
5.	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
6.	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
7.	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
8.	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	
9.	2022	Principles and Methods of Explainable Artificial Intelligence in Healthcare	Drug discovery with XAI Using Deep Learning	IGI Global Publisher of Timely Knowledge	978-16-68437-91-9	
10.	2022	Trends on Consumer Buying Behaviour	Consumer Behaviour Paradigm: Special Reference to Online Shopping	Anjuman Publications	978-93-91531-68-3	7-22
11.	2022	Reinventing Gender Equality	Role of Education in	River Publications	978-93-5515-291-6	49-52

		: Replacing Bias with Inclusion	Women Empowerment			
12.	2022	Essentials of Teaching - Pedagogy	Artificial Intelligence: Way forward to New Revolution in Education	Shanlax Publications	978-93-93737-85-4	145-152
13.	2022	Essentials of Teaching - Pedagogy	Mobile Apps for Teaching – Learning	Shanlax Publications	978-93-93737-85-4	123-127
14.	2021	Cyber Security	Protection of Women and Children in Cyber World	Shanlax Publications	978-93-91373-16-0	61-67
15.	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 Disaster and Recession	Towards Smart Health Care		https://doi.org/10.5281/zenodo.6499343		65-74	2(1), 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 Classification using Decision Tree Algorithm	5.75	2348-1269	UGC Approved	139-144	5(3), 2018
11.	IJSRD	Heart Disease Risk Prediction and Diagnosis using Machine Learning Algorithms	4.396	2321-0613	UGC Approved	2060-2063	5(6), 2017
12.	IJESC	A proficient Heart Disease Prediction	5.611	2321-3361	-	2676-2680	6(3), 2016

		Method using different Data Mining Tools					
13.	IJIRCCE	Prediction of Heart Diseases using Data Mining Techniques	6.577	2320-9801	-	2161-2168	4(2), 2016
14.	IJCSIT	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

Conference Proceedings

S.No	Date	Title of the Paper Presented	Organised By	National/ International	ISBN
1.	25 th & 26 th December 2023	A Rare case Report of Hyperreactio luteinalis – an Ovar(y) reactiveness upshot	Center for Academic & Professional Career Development and Research (CAPCDR).	International	
2.	16 th & 17 th December 2023	Issues and Challenges of Disability and Rehabilitation Services in India	Center for Academic & Professional Career Development and Research (CAPCDR).	International	
3.	23 rd to 25 th November 2022	Revolution of Education Paradigm after Covid-19	Center for Academic & Professional Career Development and Research (CAPCDR).	International	
4.	20 th , 21 st February 2022	Digital Innovation in Education on a	Center for Academic & Professional	International	978-984-35-2448-5

		Global Scale during Pandemic	Career Development and Research (CAPCDR).		
5.	16 th , 17 th January 2022	Towards Smart Health Care	Center for Academic & Professional Career Development and Research (CAPCDR).	International	978-984-35-2441-6
6.	2 nd , 3 rd October 2021	Socio Economic Impact on Covid-19 on Household	Center for Academic & Professional Career Development and Research (CAPCDR).	International	978-984-35-1281-9
7.	25 th , 26 th August 2021	Image Mining Techniques in Skin Cancer Detection	Sri Krishna Aditya College of Arts and Science, Coimbatore.	International	978-93-5526-075-8
8.	01-02-2019	Feature Selection Methods for Prediction of Risk in Myocardial Infarction	SNMV College of Arts & Science, Coimbatore.	National	-
9.	28-11-2016	Digital India: A Progressive Approach	Guru ShreeShantivijai Jain College for Women, Chennai.	National	978-93- 8564
10.	20-10-2016	E-Waste Management – Issues and Impacts	Sri G.V.G Visalakshi College for Women, Udumalpet.	National	978-93- 86176-36-3
11.	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.	

Papers Presented at National/ International Seminars/ Conferences/ Workshops

S.No	Date	Title of the Paper Presented	Title of the Conference	Organised By
1.	25 th & 26 th December 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	National Conference on	Guru Shree Shantivijai

		on Prediction of Myocardial Infarction using Data Mining Techniques	Transforming India through Digital Innovations	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 Database and Communication Technology	Sree Ramu College of 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	JKN 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.

Faculty Development Programme

S.No	Date	Title	Venue
1.	11-07-2022 to 16-07-2022	Emerging Trends in Contemporary Technologies	Sree Saraswathi Thyagaraja College, Pollachi.
2.	25-07-2022 to 31-07-2022	Advanced Computing Technologies	NGM College, Pollachi.
	01-06-2021 to 05-06-2021	ML/DL by using COLAB and KNIME –A ROAD MAP	CMR Engineering College, Hydrabad.
4.	16-06-2021	Cyber Security & Digital	Sree Saraswathi Thyagaraja College,

	to 22-06-2021	Forensics	Pollachi.
5.	03-05-2020	Machine Learning for Beginners	Sphoorthy Engineering College, Hydrabad in association with Indian Servers, Vijayawada
6.	19-05-2020 to 22-05-2020	Research Prospects and Promises of Deep Learning in Problem Solving	NGM College, Pollachi
7.	01-06-2020 to 05-06-2020	Machine Learning	J.B.Institute of Engineering and Technology
8.	05-06-2020 to 07-06-2020	IOT, AI & ML: Industrial Perspective	Sri Venkateswara College of Engineering and Technology, Chittoor
9.	14-06-2020	Applied Deep Learning	Indian Servers, Vijayawada
10.	18-06-2020 to 24-06-2020	Walk Through in Python for Machine Learning	Periyar Maniammai Institute of Science & Technology, Thanjavore
11.	09-07-2020	Deep Learning for Natural Language Processing	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore
12.	15-07-2020	Convolutional Neural Network in Deep Learning	Dhanalakshmi Srinivasan Engineering College, Chennai
13.	30-08-2016 to 31-08-2016	IBM Blue Mix	Bharathiar University, Coimbatore
14.	17-07-2010 to 19-07-2010	Smart GuruZ	Sri GVG Visalakshi College For Women, Udumalpet
15.	30-09- 2006	Towards Better Teaching	NGM College& Academic Staff College, Pollachi

Participation at National/ International Seminars/ Conferences/ Workshops

- Attended 5 Day Faculty Development Programme on “**Data Science Specialization using Python**” organized by Dr.SNS College of Arts and Science, Coimbatore.
- Participated DBT sponsored One Day Faculty Development Programme on “**Neural Networks & Deep Learning**”, conducted by Sri Ramakrishna College of Arts & Science, Coimbatore.
- Participated in the International Seminar on “**Technology Transfer**”, organized by P A College of Arts and Science, Pollachi.

- Participated in the CSIR Sponsored One Day National Level Seminar on “**Deep Learning Techniques in Health Care Applications**”, organized by Hindusthan Institute of Technology, Coimbatore.
- Participated in the CSIR Sponsored Two Day National Level Seminar on “**Deep Reinforcement Learning with Double Q-Learning Algorithm**”, conducted by P.A. College of Engineering & Technology, Pollachi.
- Participated in two-day Faculty Development Program on “**Video Lesson Making For MOOCs**” organized by Internal Quality Assurance Cell, Sankara College of Science and Commerce, Coimbatore on 4th and 5th January 2019.
- Participated in two-day Faculty Development Program on “**Stress Management**” conducted by ICT Academy on 28th and 29th December 2018 at Sri G.V.G Visalakshi College for Women.
- Participated on “**IBM Career Education Skills Track**”, Organized by IBM at Hotel Leela Palace, Bangalore.
- National Level Faculty Development Programme on “**Innovative Strategies to Enhance Teaching Learning Process**” organized by Internal Quality Assurance Cell (IQAC) of SreeRamu College of Arts and Science, Pollachi conducted on 10-09-2016.
- National Level Seminar on “**Search Engine Optimization**” conducted by Department of Computer Applications and Research of the institute of Coimbatore Institute of Management and Technology, Coimbatore on 20th February 2015.

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

- 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 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

- 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 2012 onwards.
- Board of Study Chairman from 2012 onwards.
- Academic Council Member from 2012 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 from 2022 onwards.
- Member of Alumni Association for 2 years.
- Member of College Union from 2023 onwards.

Personal Profile

Name : Dr. K.Manimekalai
Father's Name : A.Krishnasamy
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.
Contact Number : 98650 07005, 6381327896
Teaching Experience : 17 Years