

**Name: Dr.C.MAHADEVI**

**Designation: Assistant Professor**

**Department: Data Science**

**Date of Joining: 08.08.2022**

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**Educational Qualification:**

Degree	Subject	College / University & Place	Year Completed
Ph.D	Computer Science – Image Processing	Madurai Kamaraj University, Madurai	2021
M.Phil	Information Technology	M.S.University, Tirunelveli	2013
M.C.A	Computer Applications	Madurai Kamaraj University Evening College, Madurai	2003
B.Sc	Computer Science	V.V.Vannaiyaperumal College for women, Virudhunagar	1999

**Specialisation in Teaching:** Artificial Intelligence, Software Engineering, Data Structure, Operating System, Python, Java

**Specialisation in Research:** Image Processing

**Research Interests:** IoT, Data Science

**Other Work Experience:**

Designation	Institution / Company	Year - From (month/year) To (month/year)
Head & Assistant Professor	Ultra Arts And Science College, Madurai	March 2021 – August 2022
Assistant Professor	N.M.S.S.V.N. College, Nagamalai, Madurai	July 2014 – March 2021
Assistant Professor	Nazia College of Arts and Science, Karaipatti.	Jun 2012 – April 2014
Assistant Professor	Pasumpon Muthuramalinga	Jun 2010 – May 2012

	Thevar College, Usilampatti	
QA Test Engineer	Valgenesis(India) PVT Ltd, Chennai	Nov 2008 – Apr 2010
QA Test Engineer	CAC Software Consultancy Pvt Ltd, Chennai	Jan 2008 – Oct 2008
Test Engineer	Smite Solution, Chennai	Sep 2005 – Dec 2007

**Administrative /Academic Position/s (held / currently holding):**

<b>Positions held / currently holding</b>	<b>Year - From (month/year) To month/year)</b>
Data Brigade Association President in Data Science Department	2022-2023
Project Co-ordinator in Data Science Department	2022-2023
Research co-ordinator in Data Science Department	2022-2023

**UGC Sponsored Minor Project**

Title	Year of Award	Amount Awarded	Status of the project- Completed /Ongoing	Co-investigator, if any
<b>Development of Mathematical Integrated an Automatic Coronary Plaque Boundary Segmentation Approach on IVUS Image</b>	2017-2019	2,20,000	Completed	NIL

**Papers Published in Journals**

- “Performance Evaluation of Filters for de-noising Intravascular Ultrasound (IVUS) Images”, , In **International Journal of Information Technology (IJIT) – Springer, UGC-CARE List as Group I, ISSN No: 2511-2104, 2020. <https://doi.org/10.1007/s41870-020-00500-1>.**

- “Performance of Coronary Plaque Feature Extraction and Identification of Plaque Severity for Intravascular Ultrasound B-Mode Images” **Lecture Notes in Computer Science (LNCS) – Springer, UGC-CARE List as Group II, Scopus, MIKE 2019, LNCS 11197**, Page No. 1-13, ISSN No: 0302-9743, 2020.
- “Evaluation of Segmentation Algorithms for the Detection of Plaque Border and Wall Cross-Sectional Area in B-Mode Intravascular Ultrasound Images”, **Journal of International Pharmaceutical Research (IJPR) - UGC-CARE List as Group II, Scopus**, Volume: 46, Issue - 4, Page No:388-397, ISSN No:1674-0440, 2019.
- “Performance Assessment of K-Means and KNN Algorithm for the Detection of Borders and Extraction of Plaque Area from IVUS Images”, **International Journal of Recent Technology and Engineering (IJRTE) - UGC-CARE List as Group II, Scopus**, ISSN: 2277-3878, Volume-8, Issue-5, DOI:10.35940/ijrte.E6853.018520.
- Published an article titled “**A Segmentation Approach for Coronary Plaque Layer on IVUS Image Using LBF and LSE Method**”, Published in **SVNC Research Journal**, December-2013, Volume -7, Pages 7-16, **ISSN: 0976-2946**.

#### **Papers published in Edited Books/Proceedings**

- Presented and participated in the title “Performance of Coronary Plaque Feature Extraction and Identification of Plaque Severity for Intravascular Ultrasound B-Mode Images”, in **Seventh international conference on Mining Intelligence and Knowledge Exploration (MIKE 2019)**, December, 19 - 22, 2019, **National Institute of Technology (NIT)**, Goa, India.
- Presented and participated in the title “Automatically Detect the Plaque Border by Using Fuzzy Logic Based Region Active Contour Algorithm and Calculate the Wall Cross Sectional Area in B-Mode”, on **First International Conference On Intelligent Digital Transformation (ICIDT’ 2019)** during 11th to 13th July 2019 at Sri Ramakrishna

Engineering College, Coimbatore, Volume:II, Page. No. 107-115, **E-ISBN No.978-93-87862-77-7.**

- Presented and participated in the title “Performance Evaluation of Filters for de-noising Intravascular Ultrasound (IVUS) images”, on **First International Conference on Emerging Trends and Challenges (ICETC’18)**, ISSN No:**978-81-9093444-4-2** on 28th December 2018, at NPR arts & Science College, Natham, Dindigul.
- Presented and participated in the title “Review on Filtering and Segmentation Algorithms in Intravascular Ultrasound (IVUS) Images”, **International Conference on Computing Technologies (ICONCT’17)** during 16th to 17th March 2017at MepcoSchlenk Engineering College, Sivakasi.
- Presented and participated in the title “AN Analysis of Implementation and Validation Techniques in Filtering and Segmentation for Intravascular Ultrasound Image” International Conference Proceedings on Global Talent Management in the Digital ERA2017 at Fatima College(Autonomous), Madurai, **ISBN No.978-93-86537-95-9.**
- Presented a paper with entitled “**A New Segmentation Approach for Coronary Plaque Layer on IVUS Image**”. In the UGC sponsored **National Conference on “Recent Trends and Research Issues in Computer Science-2014”** organized by the Department of Computer Science, CPA College Bodinayakanur on 9<sup>th</sup> to 10<sup>th</sup> October 2014, pp.181-188,**ISBN No. 978-93-80657-74-5.**
- Presented a paper entitled “**Mathematical Morphology Operations – Implemented in MATLAB**” in the **National Seminar** on “Imminent Trends in Advanced Computing and Technology -2013”organized by the Department of Computer Science, Senthamari Arts and Science College VRS garden, Madurai on 13<sup>th</sup> April 2013, pp. 259-267,**ISBN No. 978-81-924922-3-0.**
- Presented a paper with entitled “**Automatic X-ray Bone Image Segmentation Using Filters and Morphological Operators**” in the **International Conference** on “Mining Intelligence and Knowledge

**Exploration-2013**” organized by the Department of Computer Science, V.H.N.Senthikumara Nadar College on 18<sup>th</sup> to 20<sup>th</sup> December 2013,pp. 120-135 **ISBN No. 978-81-924922-3-0.**

- Participated in the **National Conference on “Innovative Technologies & Advanced Computing (NCITAC’15)”** organized by the PG Department of Computer Applications, at Fatima College(Autonomous), Madurai, on 11<sup>th</sup> Sep-2015.

#### **Lectures / Talks given:**

- As a Resource person presented a Seminar on **“Emerging Technolgy in Data Science”** for the Computer Science department students in Senthamarai college of Arts and Science, Madurai, on October 2022.
- Delivered a **Guest Lecture Program** in the Department of Computer Science(S.F) in the title of **“ Explore about the Real Time Software Development Process” on 2013 in S.Vellaichamy Nadar College at Nagamalai, Madurai.**

#### **Training Programs and workshops Attended**

- Attended a Two days workshop on **“Android Development”** at N.M.S.S.VellaichamyNadarcollege,Madurai organized by sputnik InfoTech on 9<sup>th</sup> and 10<sup>th</sup> October 2018.
- Attended a Two days workshop on **“Medical Image Analysis and Detection Techniques with advanced Algorithms”** Conducted in association with IIP cell on 12-08-2016 & 13-08-2016 at Kongu Engineering College, Perundurai, Erode.
- Attended a Two days workshop on **“Image Processing using MATLAB: A Research Perspective”** Conducted by Department of Electrical and Electronics Engineering on 29-07-2016 & 30-07-2016 at Kongu Engineering College, Perundurai, Erode.
- Attended a one day state-level workshop on **“Mainframe Computer”** organized by Department of Computer Science at Arul Anandar College (Autonomous) college, Karumathur ,Madurai on 20<sup>th</sup> February 2015.

### **Faculty Development Program**

- Participated in the Faculty development program entitled “Competent Teachers for Millennial Learners”, under UGC Autonomy Grants, on 29<sup>th</sup> February 2020 organized and held at N.M.S.S.Vellaichamy Nadar college, Madurai.
- Participated in the Faculty development program entitled “Discover the Teacher in you” on 16<sup>th</sup> march 2019 organized and held at N.M.S.S.Vellaichamy Nadar college, Madurai.
- Participated in the Faculty development program entitled “Project Guidance –Development, Deployment and maintenance” on 8<sup>th</sup> February 2016 organized by MCA Department held at N.M.S.S.Vellaichamy Nadar college, Madurai.
- Participated in the Faculty development program under UGC Autonomy Grants, on 14<sup>th</sup> March 2015 organized and held at N.M.S.S.Vellaichamy Nadar college, Madurai.

### **Other Activities / Academic Credentials:**

1. Prepared a new Syllabus for new courses of B.Sc Computer Science with Artificial Intelligence and B.Sc Computer Science with Cloud Computing and Cyber Security for Ultra Arts and Science College, Madurai, affiliated to Madurai Kamaraj University.