

## Mrs.S.Sridevi

Assistant Professor

Department of Computer Science

School of Computing Science

Qualification :M.Sc.,M.Phil.,Ph.D

Experience :Research: 9 Years

Research Areas :Data Mining, Digital Image Processing, Networking

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### ACADEMIC PROFILE

Course	Name of the Institution	Board/ University	Year of Passing	Percentage of Marks
Ph.D.	Bharathiar University	Bharathiar University	2020	Thesis Submitted
M.Phil	Gobi Arts & Science College	Bharathiar University	2010	Commended
M.Sc. (IT)	Gobi Arts & Science College	Bharathiar University	2009	86.88%
B.Sc. (CS)	Gobi Arts & Science College	Bharathiar University	2007	72%

### MEMBERSHIP IN PROFESSIONAL BODIES

- ◆ Life Member in Indian Science Congress Association (ISCA – L23180)
- ◆ Life Member in Computer Society of India ( CSI – 11500684)

### ACADEMIC PROJECTS

S.No.	TITLE	SOFTWARE	DURATION
1.	Enhanced Methods for Feature Extraction and Classification of Coronary Artery Disease using IVUS images	MATLAB R2010a	2012-2020
2.	Noise Removal in Images Using an Effective Fuzzy Algorithm	MATLAB	2009-2010
3.	Digital Image Filter	MATLAB 7.1	2009
4.	Online Trade for Books	ASP.NET and SQL Server	2007



## AWARDS

- ◆ Received “Proficiency Award” in Post Graduation during the year 2009.
- ◆ Received “Active Participation Award in Computer Society of India during the year 2015.
- ◆ Received “Intramural Tournaments – Runner Award” in Government High School, Vellankoil during the year 2001.

## PROFESSIONAL SERVICES

- ◆ Junior Research Fellow under DST – PURSE in Department of Computer Science, Bharathiar University, Coimbatore during the year 2011-2014.
- ◆ Sectional Member for Information and Communication Science and Technology (including Computer Science) in Indian Science Congress Association during the year 2019-2020.

## RESEARCH PAPERS PUBLISHED

International Conference	: 05
International Journal	: 05
National Conference	: 08
Workshops/Seminars/Symposium	: 22

## PUBLICATION DETAILS



### INTERNATIONAL CONFERENCE

1. S.Sridevi, Dr.M.Sundaresan, “**Survey of Image Segmentation Algorithms on Ultrasound Medical Images**”, in *International Conference on Pattern Recognition, Informatics and Mobile Engineering (PRIME)*, Periyar University, Salem, ISBN: 978-1-4673-5843-9, Pages(s): 215–220, April 2013, indexed in IEEE and Scopus.
2. S.Sridevi, Dr.M.Sundaresan, “**Intravascular Ultrasound Image Using Active Contour Energy Minimization Method**”, in *4<sup>th</sup> International Joint Conference on Advances in Engineering and Technology (ACT)*, New Delhi, Pages(s): 478 - 483, November 2013, indexed in Elsevier and Semantic Scholar Corpus ID: 16025142.
3. S.Sridevi, Dr.M.Sundaresan, “**A New Approach for Coronary Plaque Layer Analysis based on IVUS**”, in *International Conference on Computing for Sustainable Global Development*, BVICAM, New Delhi, ISSN: 0973 – 7529, ISBN:978-93-80544-10-6, Page(s): 490 – 494, March 2014, indexed in Scopus.

4. S.Sridevi, Dr.M.Sundaresan, “**Feature Keypoint Extraction in IVUS Images using SIFT Descriptor Algorithm**”, in *5<sup>th</sup> International Conference on Computing for Sustainable Global Development*, BVICAM, New Delhi, ISSN: 0973 – 7529, ISBN: 978-93-80544-28-1, Page(s): 1163-1167, March 2018, indexed in Proceedings of the 12<sup>th</sup> INDIACOM.
5. S.Sridevi, Dr.M.Sundaresan, “**Evaluation of Classification Techniques for IVUS Images**”, in *6<sup>th</sup> International Conference on Computing for Sustainable Global Development*, BVICAM, New Delhi, ISSN: 0973-7529, ISBN: 978-93-80544-32-8, Page(s): 159 – 163, March 2019, indexed in IEEE.



## INTERNATIONAL JOURNAL

1. S.Sridevi, Dr.M.Sundaresan, “**Plaque Layer Identification in IVUS images by Iterative based Energy Minimization of Contour Method (IEMCM)**”, in *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN Number: 2277-3878, Volume 8, Issue -3, Page(s):5392-5397,September 2019, indexed in Scopus, Elsevier, Scientific Journal Rankings (SJR): 0.107, SCImago, Publons, Web of Science, and Lattice Science Bibliographic Database, Source Normalized Impact per Paper (SNIP): 0.012, Impact Factor:5.92.
2. S.Sridevi, Dr.M.Sundaresan, “**Minimization of False Positive Findings in IVUS Images based on Euclidean Metric with Geometric Transformation**”, in *International Journal of Multidisciplinary Educational Research (IJMER)*, ISSN Number: 2277-7881, Volume 8, Issue 10 (2),Page(s):123-131,October 2019, indexed in UGC CARE, UGC Approved, Scopus, Google Scholar, Publons, Web of Science, ORCID, Research Gate, Directory of Research Journal Indexing (DRJI) ID, International Society of Research Activity (ISRA), Research Unique Number (RUN), Index Copernicus Value:5.16, International Scientific Indexing Value:2.286, Impact Factor: 6.014.
3. S.Sridevi, Dr.M.Sundaresan, “**Hybrid Feature Extraction Techniques for Accuracy Improvement in IVUS Image Classification**”, in *International Journal of Scientific & Technology Research(IJSTR)*,ISSN Number:2277-8616, Volume 9, Issue 04, Page(s):720-724, April 2020, indexed in Scopus, Elsevier, Cite Score: 0.2,

Scientific Journal Rankings (SJR): 0.123,Source Normalized Impact per Paper (SNIP):0.091,SCImago, Impact Factor:7.466.

4. **S.Sridevi, Dr.M.Sundaresan, “Classification of Coronary Heart Artery Disease Using IVUS Images by SVM Classifier With Modified Radial Basis Function Kernel (MRBFK)”**, in *International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE)*, ISSN: 2278-3091, Volume 9, No.3, Page(s):3877-3886, June 2020, indexed in Scopus, Indian Citation Index (ICI), Academic.edu, Research Bible, Google Scholar, International Journal Impact Factor (IJIF), Digital Object Identifier (DOI), Citescore: 1.2, Scientific Journal Rankings (SJR): 0.129, SCImago, Impact Factor: Scientific Journal Impact Factor (SJIF): 3.980, Directory of Indexing and Impact Factor (DIIF): 1.042.
5. **S.Sridevi, Dr.M.Sundaresan, “Enhanced Morphology Tracing Method for Plaque Layer Detection in IVUS Images”**, in *ICGST Journal of Graphics, Vision and Image Processing (ICGST-GVIP)*, ISSN:1687-3998, September 2020, indexed in Scribd, International Scientific Indexing (ISI), Impact Factor: 1.969.

## **NATIONAL CONFERENCE**

1. S.Sridevi, **“Design and Implementation of Mapreduce Technology for Data Intensive Analysis”**, in National Level Conference on Advanced Trends in Information Technology, Dr.N.G.P. Arts and Science College, Coimbatore, March 2010.
2. S.Sridevi, **“Fuzzy Algorithm for color and Grey Scale Image Restoration”**, in National Level Conference on Innovations in Information Technology, Bannari Amman Institute of Technology, Sathyamangalam, Erode, February 2011.
3. S.Sridevi, **“Noise Removal in Images Using An Effective Fuzzy Algorithm”**, in National Level Conference on Emerging Computing and Communication Technologies, Kongu Engineering College, Perundurai, Erode, March 2011.
4. S.Sridevi, Dr.M.Sundaresan, **“Challenges in Plaque Layer analysis with Intravascular Ultrasound Images based on Shape Parameter Measurements”**, in *Proceedings of 102<sup>nd</sup> Indian Science Congress Association*, University of Mumbai, Mumbai, Page(s): 82-83, January 2015.

5. S.Sridevi, “**Identification of Coronary Heart Artery Plaque Layer in IVUS Images**”, in *Proceedings of 103<sup>rd</sup> Indian Science Congress Association*, University of Mysore, Mysuru, Page(s): 29-30, January 2016.
6. S.Sridevi, Dr.M.Sundaresan, “**Evaluation of Plaque Morphology in IVUS Images based on Image Processing Techniques**”, in *Proceedings of 106th Indian Science Congress Association*, Lovely Professional University, Punjab, January 2019.
7. S.Sridevi, Dr.M.Sundaresan, “**Improving Classification Accuracy for IVUS Images based on Feature Extraction Techniques**”, in *Proceedings of 107th Indian Science Congress Association*, University of Agricultural Science, Bangalore, Page No: 57, January 2020.
8. S.Sridevi, Dr.M.Sundaresan, “**Performance Analysis for IVUS Images using Modified Kernalized Algorithm**”, in *Proceedings of 107th Indian Science Congress Association*, University of Agricultural Science, Bangalore, Page No: 47, January 2020.



#### **WORKSHOP, SEMINAR & SYMPOSIUM**







1. Participated in “**Memory and I.D.Camp**”, Lions Club of Erode East, Erode, 2001.
2. Participated in UGC Sponsored National Level Conference on “**Information and Communication Technology (ICT) in Library Service: A Global Scenario**”, Gobi Arts and Science College, Gobichettipalayam, 2010.
3. Participated in International Workshop on “**A Quest for Journal and Thesis Writing**” Nandha Engineering College, Erode -52, 2012.
4. Participated in one day Workshop on “**Image Processing and its Applications**”, Bharathiar University, Coimbatore 46 in association with Benchmark Electronics Systems (P) Ltd., Chennai – 85, 2012.
5. Participated in ICMR Sponsored Seminar on “**Recent Trends in Medical Image Diagnostics**”, Kongu Engineering College, Erode, 2012.
6. Participated in National Workshop on “**Computer Vision and Image Processing Techniques**”, Bharathiar University, Coimbatore, 2012.
7. Participated in One-day User Awareness Programme on “**e-resources under UGC-INFLIBNET Digital Library Consortium**”, Bharathiar University, Coimbatore, 2013.

8. Participated in National Seminar on **“Research Opportunities in Mobile Ad-hoc Network”**, Bharathiar University, Coimbatore, 2013.
9. Participated in National Seminar on **“Emerging Research Challenges in Computer Science”**, Bharathiar University, Coimbatore, 2014.
10. Participated in National Seminar on **“Wireless communications and Mobile computing”**, Bharathiar University, Coimbatore, 2014.
11. Participated in one day workshop on **“Punarjjani”**, Bharathiar University, Coimbatore, 2014.
12. Participated in National workshop on **“Semantic Web Ontology”**, Bharathiar University, Coimbatore, 2015.
13. Participated in DST PURSE II Sponsored National Seminar on **“Recent Trends in Information Technology”**, Bharathiar University, Coimbatore, 2018.
14. Participated in National Seminar on **“Wireless Communication and Mobile Computing”**, Bharathiar University, Coimbatore, 2019.
15. Participated in National Seminar on **“Augmented Reality”**, Bharathiar University, Coimbatore, 2019.
16. Participated in Webinar on **“Human Computer Interaction**, Bharathiar University Coimbatore, 2020.
17. Participated in Webinar on **“Impact of the Covid 10 on IT Job Market from Challenges to Opportunities**, Bharathiar University Coimbatore, 2020.
18. Participated in Webinar on **“Social Media Networks**, Bharathiar University Coimbatore, 2020.
19. Participated in Webinar on **“Trend Technologies in 2020 for Industry 4.0**, Bharathiar University Coimbatore, 2020.
20. Participated in Webinar on **“Big Data Analytics**, Bharathiar University, Coimbatore, 2020.
21. Participated in E-Workshop on **“Face Detection & Recognition**, Sri Aurobindo Institute of Technology, Indore, 2020.
22. Participated in One day International E-Conference on **“Innovations in Information Technology”**, Bharathiar University, Coimbatore, 2020.



### Teaching: Subjects Taught

- ◆ Image Processing, Object Oriented Programming, Data Mining, Networking, C, C++, C#, HTML, JAVA, Java Script, VB Script, ASP.NET, VB.NET, Epsilon, MATLAB, PYTHON, Multimedia, WEKA, Computer Graphics with Multimedia, Data Structures.

 <b>Academic Networks</b>	
	<a href="https://scholar.google.com/citations?hl=en&amp;user=INh51zEAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=INh51zEAAAAJ</a>
	<a href="https://orcid.org/0000-0001-6704-7688">https://orcid.org/0000-0001-6704-7688</a>
	<a href="https://www.scopus.com/authid/detail.uri?authorId=57194070533">https://www.scopus.com/authid/detail.uri?authorId=57194070533</a>
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<b>PERSONAL WEBSITE / BLOG (EDUCATION - SUPPORTED)</b>	<a href="#">Personal Website Address</a>