



**Dr. S. S. DHENAKARAN**  
**PROFESSOR**

### Contact

Address : Department of Computer Science  
Alagappa University  
Karaikudi – 630 004  
Tamil Nadu, INDIA

Employee Number : 13405

Date of Birth : 08-04-1962

Contact Phone (Office) : +91 4565 226291

Contact Phone (Mobile) : +91 9894903755

Contact e-mail(s) : ssdarvind@yahoo.com

**Academic Qualifications: M.Sc., PGDCA., PGDOR., MCA., M.Phil., Ph.D.**

**Teaching Experience: 29 Years**

**Research Experience: 15 Years**

### Additional Responsibilities

1. Staff Advisor to M.Phil(CS)
2. Mentor to M.Sc (CS) students
3. Co-ordinating official work of the Department
4. Co-ordinator to Village Placement Programme
5. Arranging Special Training Programmes to the M.Sc Students
6. Project Guidance to students

## Areas of Research

Mathematical Algorithms

Cryptography

Data Mining

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	02	06
	M.Phil.	60	04
Project	PG	250	10

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
45	23	02	15	03

Cumulative Impact Factor (as per JCR) : 60.6003

h-index : 04

i10 index : 03

Total Citations : 87

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	NTRO	2007	2012	Directed Basic Research in Smart and Secure Environment (SSE)	100 Lakhs

## Distinctive Achievements / Awards

1. M.Sc(Mathes), Madurai Kamaraj University Fourth Rank
2. Distinction in M.Phil Computer Science

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 02

1. Organized a Seminar on Recent Trends in Information Technology at Alagappa University, Feb. 4-5, 2009.
2. Organized Smart and Secure Environment (SSE) Work shop, sponsored by NTRO, New Delhi, at Alagappa University, Jan. 2010.

## Events Participated

**Conferences / Seminars / Workshops: 38**

1. Presented paper "Cryptosystem with Bijective Function using Multiple Symmetric Keys "in International Conference on Computer Science organized by Saurashtra University, Rajkot, Gujarat on Jan. 13-14, 2008.
2. Attended Work Shop on SSE project, funded by NTRO, organised by Department of Computer Science and Engineering, Alagappa University on, June 20-21, 2008.
3. Attended Work Shop on SSE project, funded by NTRO, organised by Department of Computer Science and Engineering, Alagappa University on, Oct. 28-29, 2009.
4. Attended Work Shop on SSE project, funded by NTRO, organised by Department of Computer Science and Engineering, Alagappa University on, Mar. 16-17, 2009.
5. Attended Work Shop on SSE project, funded by NTRO, organised by Department of Computer Science and Engineering, Alagappa University on, Dec. 17-18, 2010.
6. Presented paper "Newton Raphson-Method for Crypto Key Generation" in International Conference on Machine Learning and Computing, organised at Singapore Feb. 26-28, 2011.
7. Presented paper "Symmetric Algorithm Performance on Flat Files – An Evaluation ," in International Conference on Machine Learning and Computing, organised at Singapore Feb. 26-28, 2011.
8. Attended Work shop on Computational aspects of Mathematics and Applications, organised by AVVM Sri Pushpam College, Poondi Tanjore Dist., Feb 20-22, 1997.
9. Attended Work Shop on Restructuring Higher Education Curriculum in the context of Globalization, organised by Alagappa University, Mar 24-26, 2006.

10. Attended Work Shop on Training Microsoft.Net, Alagappa University, June 26-30, 2006.
11. Attended Work Shop on Smart and Secure Environment, Organised by NTRO, PSG. Technology, June 22-23, 2007.
12. Attended Work Shop on Smart and Secure Environment, Organised by NTRO, PSG. Technology, Sep. 22-23, 2007
13. Attended Work Shop on Smart and Secure Environment, Organised by NTRO, PSG. Technology, Sep. 16-17,2011.
14. Presented paper "Fuzzy set Theory for Encryption of Secret set Data" in International conference, organised by Thassim Beevi Abdul Kader College for Women, Kilakarai 12<sup>th</sup> April , 2012.
15. Presented paper "Predictive Missing Numeric Attribute values in Data Set" in International conference, organised by Thassim Beevi Abdul Kader College for Women, Kilakarai 12<sup>th</sup> April , 2012.
16. Presented paper "Improvement of Caesar Cipher", in International conference, organised by Thassim Beevi Abdul Kader College for Women, Kilakarai 12<sup>th</sup> April , 2012.
17. Presented paper "Normal and Stegno Image Analysis System", in International conference, organised by Thassim Beevi Abdul Kader College for Women, Kilakarai 12<sup>th</sup> April , 2012.
18. Presented paper "New Approach for Symmetric Encryption" in International Conference of World Congress on Information and Communication Technologies, IEEE, Trivandrum, Oct 30-2<sup>nd</sup> Nov 2, 2012.
19. Presented paper "Pixel Based Feature Extraction for Ear Biometrics" in International Conference on Machine Vision and Image Processing, PSG Tech., Coimbatore, 14th December 2012.
20. Presented paper "Gender in ICT Inclusion", in International Conference on Social Exclusion and Inclusion of Women, Alagappa University, 20-21 Aug. 2013.
21. Presented paper "An Ontology based Framework for Semantic Web Content Mining" In International Conference on Computer Communication and Informatics, IEEE, Sri Sakthi Institute of Engg., and Tech.. Coimbatore, Jan. 2014.
22. Presented paper "Integrating Contents of Web pages through Ontology based framework" in International Conference on Contemporary Trends in Computer Science, JJ. College of Arts and Science, Feb.20-21 2104.

23. Presented paper "Comparative Analysis of Combined Mining and fuzzy combined mining" in International Conference on Contemporary Trends in Computer Science, JJ. College of Arts and Science, Feb.20-21 2104.
24. Presented paper "An Analysis of Social Networking usage for Business Development" in International Conference on ERCICA Aug. 1-2, 2014.
25. International Work shop on Work shop " on Cloud Structure & Services" Under faculty Development Programme , Organised by ICT & Dept. of Computer Science and Engg., 23-27, Feb 2015.
26. National Seminar On "SMAC & IOT Employment Opportunities", Orgaganised by ICT & DCSE, Alagappa University, 23-27, Feb 2015.
27. National Seminar on " New Education Policy" Organised by Commerce and International Business, Alagappa University, 7<sup>th</sup> sep 2015.
28. National Seminar on " New Education Policy" Organised by Commerce and International Business, Alagappa University, 7<sup>th</sup> Oct. 2015.
29. National Work Shop on "Learning Tamil with Computer" organised by Alagappa University and Tamil Edu. Society, 7<sup>th</sup> Nov. 2015.
30. Presented Paper "A New Compression Technique for Text Files using Matrix Mathematical" in International Conference on Robotics and Automation, organised by IEEE Trivandrum , 2<sup>nd</sup> Feb. 2016.
31. Presented paper "A Novel Compression Technique for Securing Text Files" in International Conference on Innovations in Computer Science and Technology, organised by DCSE, April 4, 2016.
32. Presented paper "A study of Hacking systems" in International Conference on Emerging Trends in Software development, organised by Algappa University Skill Development, 24<sup>th</sup> March, 2016.
33. Presented paper "Comparison method of solving Travelling Salesman Problem" in International Conference on Advanced Research Trends in Engineering and Technology, Dept. of Computer Science and Engg, Alagappa University, 4-5 April 2016.
34. Presented paper "Comparison of Ranking and page Access Coefficient of Rank Values"" in International Conference on Advanced Research Trends in Engineering and Technology, Dept. of Computer Science and Engg, Alagappa University, 4-5 April 2016.

35. Presented paper "Comparison of Apriori and Partition Algorithms in Extracting Frequent Items" in International Conference on Advanced Research Trends in Engineering and Technology, Dept. of Computer Science and Engg, Alagappa University, 4-5 April 2016.
36. Presented paper "Classifying and Mining Social Information" in International Conference on Advanced Research Trends in Engineering and Technology, Dept. of Computer Science and Engg, Alagappa University, 4-5 April 2016.
37. Presented paper "Mining Patient information using triangular Fuzzy Logic" " in International Conference on Advanced Research Trends in Engineering and Technology, Dept. of Computer Science and Engg, Alagappa University, 4-5 April 2016.
38. Presented paper "Tumour Intensity Ratio Model using support vector machine" in In international conference on Advanced Comm. Control and Computing Technologies, Organised by Syed Ammal Eng. College , Ramnad, 25-27, May 2016.

### **Other Training Programs**

1. Training Programme to Police officials of karaikudi to train office automation s/w, 2004-2005.
2. Training Programme to Alagappa University Administrative staff to get training in office Automation S/w 2006-2007.
3. Training Programme on J2EE and Best Practices in Application Development to Alagappa University and affiliated college teachers, ICT Academy of Tamil Nadu, 21-22 Jan. 2010.
4. Training Programme on Essentials of C# to Alagappa University and affiliated college teachers, Microsoft Corporation & ICT Academy of Tamil Nadu, 22-23 Feb. 2010.

### **Editorial Board**

1. A Editorial member (Reviewer) of the Scientific Writings, Research and Reviews (SWRR) Journal.
2. A Editorial member (Reviewer) of the International Journal of Enterprise Computing and Business Systems(online) IJECBS India.

### **Advisory Board**

1. Member in in the Advisory Board for the Publication of papers in International Journal of Enterprise Computing and Business Systems (Online), Specialized , Referred and Index Journal in Corporate Databases.
2. Member in Advisory Committee Member in Dept. of Computer Science Annual Function, 2014, Alagappa Govt. Arts College, Karaikudi

### **Academic Bodies (such as Board of Studies etc.,)**

1. Alagappa University, College Development Council, Board of Studies in B.COM(CA) course, for a period of three years from 2011 – 2012.
2. Alagappa University, College Development Council, Board of Studies in M.Sc(Information Technology) course, for a period of three years from 2011 – 2014.
3. Alagappa University, University Department, Board of Studies in MCA[R] course 2010-2013.
4. Alagappa University, Affiliated Colleges, M.Phil(CS) Board of studies, 2016-2019.
5. Alagappa University, Affiliated Colleges, B.Sc Software, member 2017-2020.

### **Students Selection Committee Member**

1. Interview Committee member MCA course, Alagappa University, Karaikudi.
2. Interview Committee member M.Phil(CS) course, Alagappa University
3. Interview Committee member Ph.D in Computer Science, Alagappa University
4. Interview Committee member SRF/JRF/ Project Fellow under DST-PURSE lt. dt. 17-8-2011

### **Resource persons in various capacities**

Number of Invited / Special Lectures delivered: 02

### **Others**

1. Products developed : 01
2. No. of PhD Thesis evaluated : 03
3. No. of PhD Public Viva Voce Examination conducted : 02

### **Recent Publications - 47**

1. Presented paper “A New Approach to Multiple Symmetric keys” in International Journal of Computer Science and Network Security, 254-259, 2007, ISSN No: 1738-7906.
2. Presented paper “Crypto System using Banach Fixed Point Theorem” in Journal of Discrete Mathematical Sciences and Cryptography, Vol 11, No 5, pp 579-587, 2008, ISSN No. 0972-0529, IF: 0.18.
3. Presented paper “Multilevel Encryption Model” in International Journal of Engineering Technology and Sciences, Vol. 3, N01, 2010, ISSN: 0974 – 3588, If: 2.17.

4. Presented paper "Secure Transmissions – A Study on the Challenges Faced", International Journal of Computer Science and Communications, Vol. 2 No. 1, June 2011, pp. 133-136, ISSN No. 0973 – 391, If: 2.5
5. Presented paper "STORE-AND-SEARCH - A Model for Knowledge Discovery", Journal of Global Research in Computer Science, Vol.2, No. 8, Aug. 2011 pp. 24-28, ISSN No. 2229-371X, IF1.12
6. Presented paper "Survey on Applications of Social Network Analysis", International Journal of Advanced Research in Computing Science, Vol.2, No. 5, Oct 2011, ISSN: 0976-5697, IF:1.556
7. Presented paper "A New Method for Encryption using Fuzzy set ",International Journal of Engineering Trends and Technology- Volume 3 Issue 2012, pp 320-326, ISSN: 2231-5381 IF:1.656
8. Presented paper "A Perspective Missing Values in Data mining Applications", International Journal of Engineering Trends and Technology- Volume 3 Issue3-2012, pp. 358-360, ISSN: 2231-5381, IF:1.656
9. Presented paper "A New Approach to Identify the Stegno Image Using Eigen value and Eigen Vector Method ", International Journal of Engineering Trends and Technology- Volume 3 Issue3- 2012, pp. 346-352, ISSN: 2231-5381, IF:1.656
10. Presented paper "Extension of Play fair Cipher using 16X16 Matrix", International Journal of Computer Applications, Volume 48 – No. 7, June 2012, pp. 37-41, ISSN: 975-888, IF:.0.821
11. Presented paper "A Comparative Study on Adobe Dreamweaver and Microsoft FrontPage", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 2, Issue 11, November 2012, ISSN: 2277 128X, IF:2.5
12. Presented paper "Energy Efficient Routing Protocol for Wireless Sensor Network : A Survey", International Journal of Engineering and Science Research, IJESR/Jan 2013/ Volume-3/Issue-1/Article No-1/2165-2172, ISSN 2277-2685, IF:0.456
13. Presented paper "Fuzzy Based combined pattern Mining algorithm for Domain Driven Data Mining", International Journal of Knowledge Engineering and Research, Vol. 2, Issue 1, Jan. 2013, ISSN 2319-832x, IF:0.1
14. Presented paper "An Overview of Routing Protocols in Mobile Ad-Hoc Network", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Issue 2, February 2013,251-259, ISSN: 2277 128X, IF:2.5
15. Presented paper "Implementation of Travelling Sales man's Problem using Neural Network", International Journal of computer and Organization Trends, Vol 3, Issue 4, May 2013, ISSN : 2249-2593, IF:0.534
16. Presented paper "Cross over and Mutation operations in GA - Genetic Algorithm", International Journal of computer and Organization Trends, Vol 3, Issue 4, May 2013, ISSN : 2249-2593, IF:0.534
17. Presented paper "Page-Access Coefficient Algorithm for Information Filtering in social Network", International Journal of Computer Engineering and Technology, Vol 4, Issue 3, May-June 2013, pp. 60-69, ISSN:0976-6367, IF:6.13
18. Presented paper "A six Point Charter of Green Computing", International Journal of Compute Applications, Vol. 71, Issue 22, June 2013, Google scholar, ISSN:0975-8887, IF:0.791



19. Presented paper "Implementation of Bankers Algorithm in cloud Computing", International Journal of computer Science, Vol 1, Issue 2, No. 2, July 2013, Pg. 69-73, SCOPUS Indexed, ISSN:2348-6600, IF: 0.342
20. Presented paper "ICT, A Transformation Agent for Education", Journal of Women's Studies, Volume VI, issue 6, July 2013, pp 110-121, ISSN:2320-6403, IF:--
21. Presented paper "ONTOCOMM: Ontology based E-Commerce Application using RDF", International Journal of Computer Science and Information Technology Vol.4. NO. 4 pp. 595-599, 2013, ISSN:0975-9646, iF:0.31
22. Presented paper "Hop-Field Model using Travelling Salesman Problem", International Journal of computer Science Vol. 1, Issue 2, July 2013. SCOPUS Indexed, ISSN:2348-6600, IF:0.342
23. Presented paper "Data Mining: Clustering", International Journal of P2P Network Trends and Technology, Vol. 3 Issue 7, August 2013, ISSN:2249-2615, IF:0.601
24. Presented paper "Solving Travelling Salesman Problem efficiently using Genetic Algorithm", International Journal of Computer Science, vol. 1 issue **2, No. 3**, Aug. 2013, pp. 105-110, SCOPUS Indexed, ISSN:2348-6600, IF:0.342
25. Presented paper "An overview of Data Mining Techniques and clustering concepts", International Journal of Computer Science, vol. 1 issue **2, No. 3**, Aug. 2013, pp. 105-110, SCOPUS Indexed, ISSN:2348-6600, IF:0.342
26. Presented paper "ONTOGEN: Ontology-Based General Framework for Web Content Mining using RDF", European Journal of Scientific Research vol. 109, No. 4, Aug. 2013 , pp. 622-632, SCI Indexed, ISSN: 1450-216X / 1450-202X, IF:0.36
27. Presented paper "ONTOPARK: Ontology-Based Page Ranking Framework using Resource Description Framework", Journal of Computer Science Vol. 10, No. 10, April 2014, pp. 1176-1781, SCOPUS Indexed, ISSN: 1549-3636, IF:0.694
28. Presented paper "Ranking Relevant web pages using Ontology", International Journal of Advanced Research in Computer Science, Vol. 5, No. 2, April 2014, pp. 149-153, ISSN:0976-5697, IF:3.74
29. Presented paper "Mining Simulated Network for personal Problems", International Journal of Computer Applications, Vol. 96, No. 17,, June 2014, pp. 41-46, Google Scholar, ISSN: 0975-8887, IF:0.715
30. Presented paper "Mining Social Network for Marketing", International Journal of Adv. Research in Engg. and Technology, vol. 2, Issue VII, July 2014, pp. 48-53, ISSN: 2320-6802, IF:0.827
31. Presented paper "A Relative investigation of combined association rules with fuzzy combined rules", European Journal of Scientific Research , June 2014, Pg. 151-156, SCI Indexed, ISSN: 1450-216X / 1450-202X, IF:0.30

32. Presented paper "Power Awareness on Demand Routing Protocol for MANET", International Journal of Computer Applications, ISSN:0975-8887, IF:0.715
33. Presented paper "Mining Sequence Data and Time Series Data", International Journal Computer Science Ref-ID 046, Vol. 2, issue 1, No. 4 July 2014, 260-264, SCOPUS Indexed, ISSN:2348-6600, IF:0.432
34. Presented paper "Mining Medical Information using Flowers", International Journal of Computer Applications, Vol. 95, No. 22 June 2014, Google Scholar, ,IF:0.715
35. Presented Paper "A Novel Method for Disease Diagnosis by Plants Using Association Rules", International Journal of Advanced Research in Engg. And Tech, Vol. 2, issue VIII, Aug 2014, ISSN:2320-6802, IF: 7.827
36. Presented paper "Study on Applications of Information Filtering/ Retrieval Algorithms in Social Network", International Journal of Emerging Trends and Technology in Computer Science, Vol 4, issue 1, Feb 2015, pp. 91-95, ISSN: 2278-6856, IF:4.413
37. Presented paper "Comparison of Membership Functions using Clinical Dataset Based on Fuzzy Inference System", International Journal of Advanced Research in Computer and Comm. Engineering, Vol. 4 issue 8, Aug 2015, ISSN:2319-5940, IF:0.564
38. Presented paper "Social Media Analysis Grouping Algorithm", European Journal of Scientific Research, , Vol. 134 No. 1 August 2015, pp. 31-40, SCI Indexed, ISSN 1450-216x/1450-202x, IF:0.36
39. Presented paper "Performance Analysis of Page Access Coefficient Algo. For Info. Filtering", International Journal of Applied Engineering Research,vol. 10, No. 14, Aug. 2015, pp. 34856-34860, SCOPUS Indexed, ISSN:0973-4562, IF:--
40. Presented paper "Comparison method of solving Travelling Salesman Problem", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, IF:0.38
41. Presented paper "A Novel Encryption Technique for Securing Textfiles", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, iF:0.38
42. Presented paper "Comparison of Ranking and page Access Coefficient of Rank Values", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, iF:0.38
43. Presented paper "Comparison of Apriori and Partition Algorithms in Extracting Frequent Items", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, iF:0.38
44. Presented paper "Classifying and Mining Social Information", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, iF:0.38

45. Presented paper "Mining Patient information using triangular Fuzzy Logic", International Journal of Advanced Research Trends in Engineering and Technology, Vol 3, Issue 20, April 2016, ISSN: 2394-3777, iF:0.38
46. Presented paper "A Mathematical Modelling for Quality Based Ultrasound Breast cancer Image using colour properties", Australian Journal of Basic and Applied Sciences, SCOPUS Indexed, ISSN:1991-8178, IF:---
47. Presented paper "Ear Biometrics System Based on Gray Level (Spatial) Statistical Feature Extraction", International Journal of computer Science and Information Security, , Volume 14, Special Issue, pp. 164-171, 2016, SCI indexed, ISSN 1947-5500, IF:0.519