

Dr. P. ALAGAMBIGAI

Profile

Name : **Dr.P. ALAGAMBIGAI, MCA., M.Phil., Ph. D.,**
Profession : Teaching, Research and Administration.
Experience : 22 years 6 months
Mobile Number : 9994378880
E-mail : alagambigai@yahoo.co.in

EDUCATION

Doctorate

Doctorate in Computer Science, Mother Teresa Women's University, Kodaikanal. Tamilnadu, India March, 2013.

Dissertation title: On Some Intelligent Visual Cluster Rendering System

Master

Master of Philosophy in Computer Science, Mother Teresa Women's University, Kodaikanal, Tamilnadu, India. May, 2004.

Dissertation title: Routing Algorithms for Server based Multicast Overlays.

Master of Computer Applications, Sri Saradha Niketan College of Science for Women, Bharathidasan University, Tamilnadu, India, April 1997.

Project title: Automation on Tooling Selection.

First Class.

Bachelor

Bachelor of Science (Special), Lady Doak College, Madurai Kamaraj University, Madurai, Tamilnadu, India, April 1994.

Project title: Electro deposition and Characterization of Cadmium Selenide thin films.

First Class.

RESEARCH & TEACHING EXPERIENCE

Research Direction

Research & development activities Related to Data Mining, Visual Clustering and Soft Computing.

Teaching Experience

S.No.	Name of the Institution	Designation	Period From-To	No. of Years & Months
1.	Maharaja College for Women, Perundurai	Lecturer	1/12/97 to 6/4/2005	7 Y & 4 M
2.	Vellalar College for Women, Erode	Lecturer	1/6/2005 to 30/34/2008	2 Y & 10 M
3.	PMR Institute of Technology, Chennai	HOD	13/8/2008 to 28/5/2009	0 Y & 9 M
4.	Easwari Engineering College, Chennai	Asst. Professor(Sr.Gr) & HoD	90/06/2009 to 27/04/2018	8 Y & 10 M
5.	Women's Christian College, Chennai	Assistant Professor	14/06/2018 to 17/04/2021	2 yr & 10 months

Guidance

M.Phil Thesis Guided : 2 (Ref. Letter. No: 16437-4/A2/2004)

Editorial activities

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- **Reviewer in** Visual Analytics and Interactive Technologies: Data, Text and Web Mining Applications Source Author(s)/Editor(s): Qingyu Zhang (Arkansas State University, USA), Richard S. Segall (Arkansas State University, USA) and Mei Cao (University of Wisconsin-Superior, USA), DOI: 10.4018/978-1-60960-102-7.ch004.

- **Chair Person at** ARTCom 2009, International Conference on Advances in Recent Technologies in Communication and Computing, Kottayam, Kerala, India, 27-28 October 2009; 01/2009.
- **Chair Person at** 4th Indian International Conference on Artificial Intelligence, IICAI 2009, Tumkur, Karnataka, India, December 16-18, 2009; 01/2009.
- **Editorial member** in Proceeding of the National Conference on Computer and Communication Technology, NCCCT-2011, ISBN:978-81-8371-384-9.
- **Editorial member** in Proceeding of the fifth National Conference on Advanced Computing Applications and Technologies, NCACAT-2015, ISBN:978-981-09-4670-89.
- **Chair Person at** National Conference on Recent Advances in Computing and Communications, SSS Jain College, Chennai , March 21-22, 2014.
- **Chair Person at** 2nd National Conference on Recent Advances in Computing and Communications, SSS Jain College, Chennai, 27th March, 2015.
- **Session Chair at** Fourth International Conference on Communication, Computing and Information Technology ICCCMIT 2019, M.O.P. Vaishnav College for Women, 15th & 16th February 2019.

PUBLICATIONS

International & National Journals

- [1] P. Alagambigai , J. Serin and Jemima Simeon, "Arrhythmia Using Ensemble Learning", Bioscience Biotechnology Research Communications Special Issue Volume 13, Number (6), pp.12-18, 2020.
- [2] Alagambigai, K. Krithika, V. R. Angela Deepa, J. Serin, "IoT based Hydroponic Plant Monitoring through Image Processing", International Journal of Advanced Science and Technology, Vol. 29 No. 8s, pp. 2964-2974, 2020.
- [3] P.Alagambigai, D.R.Angela Deepa, P.Maqlin, "A Study on Big Data Visualization Techniques", Journal of Emerging Technologies and Innovative Research, Volume 6, Issue 3, 2019.
- [4] P.Alagambigai, Gunaselvi Manohar, K.Suryaprakasa Rao, R.Dilli Babu," Study about the Sources of Vehicular Pollution: A Data mining approach", International Journal of Applied Engineering Research (IJAER), Vol. 10, No, 27, pp.21780-21784, 2014.

- [5] Alagambigai, P., Thangavel, K., "Intelligent Data Clustering: A Visual Approach," An International Journal of Advanced Computer Technology, ISSN - 2320-0790, May 2014.
- [6] Alagambigai, P., Karthikeyani Vishalakshi., "Distributed Visual Cluster Rendering System," An International Journal of Advanced Computer Technology, May 2014, ISSN - 2320-0790.
- [7] Alagambigai, P., Thangavel, K., "Knowledge Assisted Visualization for imbalanced Data Clustering," International Journal on Computer Applications, Vol. 2, pp. 6-13, 2013.(Impact Factor 0.814)
- [8] Alagambigai, P., Thangavel, K., "Dimensionality Reduction for Interactive Visual Clustering: A Comparative Analysis," Visual Analytics and Interactive Technologies: Applications of Data, Text and Web Mining, IGI Global Publications, pp. 60-78, June 2010 (Book Chapter).
- [9] Alagambigai, P., Thangavel, K., "Visual Clustering through Weight Entropy," International Journal on Data Mining, Modelling and Management, Vol. 2(3), pp. 196-215, 2010.
- [10] D.Devakumari, K.Thangavel, P.Alagambigai, K.Sarojini, "Prediction of Classification Accuracy with Selected features in Unsupervised Data", International Journal on Recent Trends in Engineering, Vol.3, No.1, pp. 30-36, May 2010.
- [11] Thangavel. K and Alagambigai. P., "EVISTA-Interactive Visual Clustering System," International Journal on Recent Trends in Engineering, pp.83-37, 2009.
- [12] Thangavel, K., Alagambigai, P., Devakumari, D.,"Improved Visual Clustering through Unsupervised Dimensionality Reduction," Goebel, R., Siekmann, J., & Wahlster, W.(Ed.), Rough Sets, Fuzzy Sets, Data Mining and Granular Computing, 5908/2009, LCNS, Springer, pp. 439-446, 2009.
- [13] Alagambigai, P., Thangavel, K., Karthikeyani Vishalakshi, N, "Entropy Weighting Feature Selection for Interactive Visual Clustering," In: Proceedings of 4th International Conference on Artificial Intelligence, pp. 545-557, 2009.
- [14] Alagambigai, P., Thangavel, K., "Feature Selection for Visual Clustering," In: Proceedings of International Conference on Advances in Recent Technologies in Communication and Computing, IEEE Computer Society, pp.498-502, 2009.
- [15] N. Karthikeyani Vishalakshi, K. Thangavel, P. Alagambigai, "Distributed Fuzzy Clustering using Cluster Ensemble," Proceedings of 4th International Conference on Artificial Intelligence, pp. 999-1011, 2009.
- [16] P. Alagambigai, K. Thangavel, N. Karthikeyani Vishalakshi, "Interactive Clustering in Distributed Environment," In: Proceedings of ICETET, First International Conference on Emerging Trends in Engineering and Technology, IEEE Computer Society, pp. 1200-1205, 2008.

- [17] N. Karthikeyani Visalakshi, K. Thangavel, P. Alagambigai, "Distributed Clustering for Data Sources with Diverse Schema," In: Proceedings of Third International Conference on Convergence and Hybrid Information Technology, IEEE Computer Society, Vol. 1, pp. 1058-1063, 2008.
- [18] P. Alagambigai, K. Thangavel, N. Karthikeyani Visalakshi, "Improved Visual Cluster Rendering System," In: K. Thangavel.(Eds.), Intelligent and Computing Model, Narosa Publishing House, New Delhi, pp. 16-23, 2009.
- [19] N. Karthikeyani Visalakshi, K. Thangavel, P. Alagambigai, "Distributed Clustering using Interactive Visualization," In: K. Thangavel.(Eds.), Intelligent and Computing Model, Narosa Publishing House, New Delhi, pp. 24-31, 2009.
- [20] P. Alagambigai, K. Thangavel, N. Karthikeyani Visalakshi, "Interactive Clustering for Feature Selection based on Rough Set Theory", In: Natarajan et al.(Eds.), Mathematical and Computational Model, Narosa Publishing House, New Delhi, pp. 291-299, 2007.
- [21] N. Karthikeyani Visalakshi, K. Thangavel, P. Alagambigai, "Ensemble Approach to Distributed Clustering Visualization", In: Natarajan et al.(Eds.), Mathematical and Computational Model, Narosa Publishing House, New Delhi, pp. 252-261, 2007.

List of Papers Presented In International & National Conferences

- [22] Krishnakumari Aharamuthu, Elayaperumal Ayyasamy, Alagambigai Paramasivam, "An intelligent model using visual clustering and entropy weighting feature selection for the online condition monitoring of spur gear", International Conference on Computing, Cybernetics and Intelligent Information System (CCIIS'2013) organized by School of Computing Science and Engineering, VITT University, Vellore, tamilnadu during November 21-23, 2013.
- [23] Alagambigai, P., Thangavel, K., "Knowledge Assisted Visualization for imbalanced Data Clustering," International Conference on Communication, Computing and Information Technology, Vol. 2, pp. 6-13, 2013.
- [24] Alagambigai, P., Thangavel, K., Karthikeyani Vishalakshi, N, "Entropy Weighting Feature Selection for Interactive Visual Clustering," 4th International Conference on Artificial Intelligence, pp. 545-557, 2009.
- [25] Alagambigai, P., Thangavel, K., "Feature Selection for Visual Clustering," International Conference on Advances in Recent Technologies in Communication and Computing, IEEE Computer Society, pp.498-502, 2009.

- [26] P. Alagambigai, K. Thangavel, N. Karthikeyani Visalakshi, "Interactive Clustering in Distributed Environment," First International Conference on Emerging Trends in Engineering and Technology, IEEE Computer Society, pp. 1200-1205, 2008.
- [27] N. Karthikeyani Visalakshi, K. Thangavel, P. Alagambigai, "Distributed Clustering for Data Sources with Diverse Schema," Third International Conference on Convergence and Hybrid Information Technology, IEEE Computer Society, Vol. 1, pp. 1058-1063, 2008.
- [28] P. Alagambigai, "A study on big data mining through visualization techniques" National Conference on Recent trends in Computing and Communications, held at Sairam Engineering College, Chennai. March 21, 2014
- [29] P. Alagambigai, "Univariate Analysis and Feature Selection for Soft Clustering", Kongu Engineering College, Erode 6.
- [30] P. Alagambigai, "Univariate Analysis for Data Clustering" National Conference on Communication and Computing Techniques held at S.A. Engineering College.
- [31] P. Alagambigai, "Green Energy in India : Fuel to Natural Gas" National Conference on Go Green, held at DMI Engineering College on 18th March 2011.
- [32] P. Alagambigai, K. Thangavel, N. Karthikeyani Visalakshi, "Improved Visual Cluster Rendering System," National Conference on Intelligent Computing Models held at Periyar University, Salem during 22-23 Feb 2008.
- [33] P. Alagambigai, K. Thangavel, N. Karthikeyani Visalakshi, "Interactive Clustering for Feature Selection based on Rough Set Theory", National Conference on Mathematical and Computational Models, NCMCM 2007, held at PSG College of Technology during Dec 13-15 2007.
- [34] P. Alagambigai, "Multicast Proxy Routing", UGC Sponsored National Level Seminar on Advances in Mobile Computing" held at Post-Graduate and Research Department of Mathematics & Computer Science, Erode Arts College(Autonomous), Erode, during September 29th & 30th, 2005.

Conference/FDP organization

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- [1] CSI Sponsored 4th National Conference on Advanced Computing Applications and Technologies, 07/05/2014, Easwari Engineering College, Chennai.
 - [2] CSI Sponsored 5th National Conference on Advanced Computing Applications and Technologies, 12/03/2015, Easwari Engineering College, Chennai.

Work Shop/ FDP/ Seminar ATTENDED

- [1] National Seminar on Recent Trends in Computing organized by Department of Computer Science, Periyar University, Salem on 28-10-2006.
- [2] Workshop on Mammogram Image Processing and Analysis organized by Department of Computer Science, Periyar University, Salem on 26-11-2006.
- [3] Workshop for Ph.D holders on Research Orientation organized by Mother Teresa Women's University, on 31-08-2007 and 19-01-2008.
- [4] Workshop on Pattern Recognition organized by Department of Computer Science, Periyar University, Salem on 01-09-2007.
- [5] Workshop on Data Mining using Rough Set Theory organized by Department of Computer Science, Periyar University, Salem on 03-03-2007.
- [6] National Seminar on Frontiers in Material Science organized at Vellalar College for Women, Erode On 07-02-2008.
- [7] Faculty Development Training Programme on Database Management Systems at Easwari Engineering College from 30-11-2009 to 06-11-2009.
- [8] Faculty Development Training Programme on Advanced Network Programming at Easwari Engineering College from 24-02-2010 to 26-02-2010.
- [9] TCS Associated National level Workshop on Recent Trends in Cloud Computing organized by Department of Computer Science and Engineering, Easwari Engineering College on 14-12-2011.
- [10] Workshop on Applications of Queuing Theory in Engineering organized by Department of Mathematics, Easwari Engineering College on 19-12-2011.
- [11] Workshop on Mission 10X at Easwari Engineering College from 29-11-2011 to 03-12-2011.
- [12] National level Faculty Development Programme organised by Spoken Tutorial Project, IIT Bombay – Python 3.4.3 organised by Adhiparashakthi Engineering College in Association with IIT Bombay, Online, from 16th April to 22nd April 2020.
- [13] National level Faculty Development Programme organised by Spoken Tutorial Project, IIT Bombay – R Programming organised by Sri Krishna Arts and Science College, online, from 19th April 2020 to 24th April 2020.
- [14] National level Faculty Development Programme on Python 3.4.3 and R organised by Spoken Tutorial Project, IIT Bombay Easwari Engineering College, Online, from 20th April 2020 to 30th April 2020.
- [15] International FDP on Develop the Ability to Write Research Proposal by Adarsh Group of Institutions, Bangaluru, Karnataka, Online, 24th April 2020.

- [16] National, Workshop on Model Building in Social Science Research Centre for Creativity – Research & Development, Dr. SNS Rajalakshmi College of Arts & Science, Coimbatore, Online, 28th April 2020.
- [17] National, Online Webinar on Artificial Intelligence for COVID-19 Problems RAAK College of Engineering and Technology, Puducherry, Online, on 28th April 2020
- [18] National, Webinar on Accessing Research Output & Its Enhancement Knowledge Resource Center, JK Business School, Gurugram and Library Professionals Association, New Delhi, Online, 2nd May 2020
- [19] National, Faculty Development Program on Machine Learning using Python Vels University, Chennai, Online, 4th May 2020.
- [20] National, Webinar on Use of Elsevier Tools in Research Workflow University of Madras, Online, 5th May 2020
- [21] National, Faculty Development Program on “Digital Transformation- An Introductory Course” Department of Electronics and Instrumentation Engineering, Easwari Engineering College, Online, 08th May 2020 to 12th May 2020 .
- [22] National, Two day online FDP on Project Proposals for Funding Agencies (UGC STRIDE & ICSSR IMPRESS): Preparation and Submission Protocol Patrician College Research Committee, Patrician College of Arts and Science, Chennai, 16th May 2020 – 17th May 2020
- [23] National, Online Faculty Development Programme On Research Prospects and promises of Deep Learning in Problem Solving PG Department of Computer Applications (MCA) of Nallamuthu Gounder Mahalingam College Pollachi, Online, 19th MAY to 22nd MAY 2020.
- [24] National, National Level Online Faculty Development Program on “ICT Tools for E-Content Development” Department of Computer Science and the Internal Quality Assurance Cell(IQAC), Women’s Christian College, Chennai, Online, 26th and 29th May 2020
- [25] National, Webinar on Big Data Engineering for Analytics M.O.P. Vaishnav College for Women (Autonomous), Online, 26th May 2020
- [26] National, Seven Days Online Faculty Development Programme on Data Science for Biomedical Applications VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY (Autonomous), Online, 26th May 2020 to 1st June 2020.

Invited tutorials

- **Invited Speaker** on “Data Visualization ” at CSIR sponsored National Seminar on “Intelligent Data Analysis and Decision Technologies”, Department of Master of Computer Applications , Sona College of Technology, Salem on 22-09-2012.
- **Invited Speaker** on “Matlab” for M.Sc(CS), M.C.A & M.Phil at Department of Computer Science, Vyshya College, Salem from 26-12-2012 to 27-12-2012.

Academic Proficiency

- **Best Paper (Second) award** for the paper entitled “Feature Selection for Visual Clustering” at International Conference on Advances in Recent Technologies in Communication and Computing, ART 2009.
- **Best Outgoing Student** Sri Saradha Niketan College of Science for Women, Bharathidasan University, Tamilnadu, India in 1997.
- **District Second Place** (Highest Total in Physics) in Higher. Sec. Exam conducted by Anna District.

Proficiency in Co-curricular Activities

- **Tamilnadu State First award** for Oratorical contest conducted by Air India, Dhinamani, received award from former tamilnadu chief minister Mr. M.G.Ramachandran and visited U.S.A.
- **Best Actress award for** Tamil Drama at Sri Saradha Niketan College of Science for Women, Bharathidasan University, Tamilnadu, India in 1997.
- **Outstanding Contribution** in NSS.

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Academic Committees

Chief Superintendent **Easwari Engineering College for Anna University examinations**
(Nov 2015 – Feb 2016)

Member of the examination committee for the: (question paper setting)

Thiyagaraja College, Madurai.
Periyar University, Salem.
Kongu Engineering College, Perundurai.

Member of Board of Studies

For M.C.A., & M.Sc Degree Vellalar College for Women, Erode
(Autonomous).

Member of Subject Expert

For M.C.A., M.Sc & M.Phil Degree, Periyar University, Salem.
For M.C.A., Degree, Nandha Engineering College (Autonomous),
Erode.

Administrative Committees

Examcell Co-Ordinator	Easwari Engineering College
MIS Co-Ordinator	Easwari Engineering College
Member	ISO Quality Procedure manual revision committee
Co-Ordinator	Mock -Placement

LANGUAGES

Read, Write & Speak :Tamil, English,

Speak :Telugu

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, this bio-data correctly described my self, my qualification and my experience.

Date:

Place:

Signature