



DR. G. GERMINE MARY

Designation : Associate Professor
Department : Computer Science (**RETIRED**)
Email ID : germinemary@yahoo.co.in
Date of Birth : 18.04.1966
Languages Proficiency
Read : Tamil & English
Write : Tamil & English
Speak : Tamil & English

1. QUALIFICATION

S. No.	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	UG	Physics	Holy Cross College, Tiruchirappalli	1986
2.	PG	Computer Applications	St. Joseph's College, Tiruchirappalli	1989
3.	M.Phil.	Computer Science	Mother Teresa University, Kodaikanal	2005
4.	Ph.D.	Computer Science	Gandhigram Rural Institute (Deemed University), Gandhigram	2017

2. TEACHING EXPERIENCE / OTHER EXPERIENCE

S. No.	Institution / Organization	From - To
1.	Fatima College (Autonomous), Madurai	27.06.1990 - 31.05.2026

3. POSITION HELD IN FATIMA (VICE PRINCIPAL, HOD, DEAN, COORDINATOR, MEMBER ETC.)

S. No.	Name of the Position	From - To
1.	Head, Department of Computer Science	1996 - 2023
2.	Head, Department of Computer Applications	1995 - 2000
3.	Director, IT Department	2000 - 2002
4.	Coordinator, Web Committee	2017 - 2022

4. MEMBERSHIP IN PROFESSIONAL / OTHER BODIES / COMMITTEES

S. No.	Name of the Position	Name of the Body	Name of the Institution	Duration
1.	Inspection Commission, Affiliation to B.Sc. (C.Sc.)	-	Thiagarajar College, Madurai	Apr. 2008
2.	Inspection Commission, Permanent Affiliation to B.Sc. (IT & M)	-	Ayya Nadar Janaki Ammal College, Sivakasi	Nov. 2008
3.	Inspection Commission, Affiliation to B.Sc. (C.Sc.)	-	Amma College of Arts & Science	May 2009
4.	Member	Board of Studies	Mannar Thirumalai Naiakar College, Madurai	2015 - 2018
5.	Member	Board of Studies	The Standard Fireworks Rajaratnam College for Women, Sivakasi	2014 - 2016
6.	Member	Board of Studies	Jeyaraj Annapackiam College for Women, Periyakulam	2014 - 2016
7.	Member	Board of Studies	Madurai Kamaraj University, Madurai	Feb. 07 - May 2010
8.	Member	Board of Studies	Madurai Kamaraj University, Madurai	Feb. 07 - May 2010
9.	Member	Board of Studies	Arul Anandar College, Karumathur	2008 - 2009
10.	Member	Board of Studies	The Standard Fireworks Rajaratnam College for Women, Sivakasi	2005 - 2007
11.	Member	Board of Studies	Ayya Nadar Janaki Ammal College, Sivakasi	2004 - 2006
12.	Member	Board of Studies	Jeyaraj Annapackiam College for Women, Periyakulam	2004 - 2005
13.	Member	Board of Studies	Sri Meenakshi Government College for Women, Madurai	2003 - 2004
14.	Member	Board of Studies	Arul Anandar College, Karumathur	1999 - 2001

5. AREAS OF SPECIALIZATION

❖ VISUAL CRYPTOGRAPHY

6. M.PHIL. GUIDANCE COMPLETED/ONGOING

S. No.	Student Name	Title of Dissertation	Organization	Year
1.	Data Mining Techniques – Web Access Mining	L. Santhanalakshmi (03CD-2633)	Bharathidasan University, Tiruchirappalli	2008
2.	Studies on the Role of Access Controls in Database Security	S. X. Kavitha Alphonsa (A7A6182101)	Madurai Kamaraj University, Madurai	2009
3.	An Efficient Image Transport Protocol for the Internet	P. Geetha (066060632)	Alagappa University, Karaikudi	2011

7. ORIENTATION/REFRESHER/TRAINING PROGRAMMES/FDP ATTENDED

S. No.	Programme	Theme	Organized by	Date
1.	Refresher Program	Recent trends in Computer Science	Madurai Kamaraj University	1996
2.	Orientation Programme	-	Madurai Kamaraj University	1999
3.	Faculty Improvement Programme (Refresher)	Entrepreneurship for Teachers of Science & Engineering Colleges	Centre for Entrepreneurial Development, MKU	2001
4.	Refresher Program	High Performance Computing	Madurai Kamaraj University	2002

8. FACULTY IMPROVEMENT PROGRAMS ATTENDED

S. No.	Name of the Workshop	Place	Date
1.	Hands on Workshop on "Cloud Computing Tools"	Thiagarajar College of Engineering, Madurai	Oct. 15 - 18, 2015
2.	Workshop on Image Processing Techniques	Fatima College, Madurai	Mar. 2014
3.	Workshop on Android Applications	Fatima College, Madurai	Nov. 2013
4.	Research Guides in Colleges & Major Research Projects	Yadava College, Madurai	Aug. 2003

9. PAPER PRESENTED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
1.	National Conference on Computational Methods, Communication Techniques and Informatics	Department of Computer Science and Applications, Gandhigram Rural Institute – Deemed University, Gandhigram	Jan. 27 & 28, 2017	Efficient and Secured Image Sharing Using Visual Cryptography and Genetic Algorithm
2.	International Conference on Signal Processing, Control and Data Analytics -2016 (ICSCD 2016)	International Society of Scientific Research and Development, San Diego, USA	Aug. 27 & 28, 2016	Security Augmentation of Visual Cryptography Using Watermarking Embedded QR Code
3.	National Conference on New Horizons in Computational Intelligence and Information Systems	Department of Computer Science and Applications, Gandhigram Rural Institute – Deemed University, Gandhigram	Dec. 17 & 18, 2015	Compression of VC Shares Using Vector Quantization and RLE
4.	International Conference on Computational Models, Cyber Security & Computational Intelligence (ICC3)	Department of Applied Mathematics and Computational Sciences, PSG College of Technology	Dec. 17 - 19, 2015	Multilevel Multimedia Security by Integrating Visual Cryptography and Steganography Techniques
5.	International Conference on Innovative Research in Engineering, Science and Management (ESM-15)	Academic Science and Conference Info at Jawaharlal Nehru University, New Delhi	Sep. 20, 2015	High Level Multimedia Security by Incorporating Steganography and Visual Cryptography
6.	National Conference of Recent Advances in Computer Science and Applications	Department of Computer Science and Applications, Gandhigram Rural Institute – Deemed University, Gandhigram	Mar. 19 - 20, 2015	A Study on Visual Cryptography Using Meaningful Shares

S. No.	Programme & Theme	Organized by	Date	Title of the Paper
7.	National Conference on Food Security – Issues and Concerns	Department of Rural Development Science, Arul Anandar College, Madurai	2013	The Role of ICT in Sustainable Food Production
8.	National Conference on “Education Through Multi-Media”	Dept. of Computer Science and Library, Fatima College	Mar. 2009	-
9.	National Seminar on Enhancing and Sustaining Quality in Higher Education – Intervention Strategies	IQAC, Fatima College, Madurai	Feb. 27, 2009	-
10.	National Conference on “Intelligent E-Learning Systems”	Bishop Heber College	2006	-

10. PARTICIPATED ON NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	National Conference on “J2EE and Best Practices in Application Development”	ICT Academy of Tamil Nadu	2009
2.	Faculty Development Workshop on “Business Intelligence”	Dept. of Computer Applications, Fatima College	Feb 14, 2009
3.	Conference on “Bridging the Gap Between Industry and Institution”	Industry Institution Interface Cell, Fatima College	Apr. 02 & 03, 2007
4.	National Conference on “Computer Science and Informatics”	St. Joseph’s College, Tiruchirappalli	Feb. 18 & 19, 2005
5.	National Seminar on “Cyber Impact on Society”	Seethalakshmi Ramaswami College, Tiruchirappalli	2004
6.	State Level Seminar on “Research Trends in Information Technology”	St. Joseph’s College, Tiruchirappalli	2003
7.	International Conference on “Asian Digital Libraries”	University of Mysore & Indian Institute of Information Technology, Bangalore	2001
8.	National Conference on “Information Technology in Teacher Education Program”	Thiagarajar College of Preceptors, Madurai	2001
9.	Workshop on “Human Rights”	Fatima College, Madurai	Dec. 19 & 20, 2000
10.	Workshop on “Question Bank in Computer Science” - Phase II	Loyola College, Chennai	Feb. 10 - 13, 1999
11.	Workshop on “Question Bank in Computer Science” - Phase I	Loyola Academy, Secunderabad	Nov. 21 - 23, 1996
12.	Workshop on Personality and Human Relation	Fatima College, Madurai	Oct. 27 - Nov. 02, 1994
13.	State Level Meet on High Performance Computing	Dept. of Computer Science, Madurai Kamaraj University	Sep. 24 & 25, 1993
14.	All India Consultation in Computer usage and Training in Colleges	The American College, Madurai	June 02 - 09, 1991

11. ORGANIZED NATIONAL/INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

S. No.	Programme & Theme	Organized by	Date
1.	National Conference on "Education Through Multi-Media"	Dept. of Computer Science and Library, Fatima College, Madurai	Mar. 2009
2.	National Workshop on "Prospective Avenues for IT Graduates"	Dept. of Computer Science, Fatima College, Madurai	Mar. 2008
3.	National Seminar on "Interdependence on Mathematics and Computer Science"	Dept. of Computer Science and Mathematics, Fatima College, Madurai	Mar. 2004
4.	National Convention on "Recent Trends in Information Technology"	Dept. of Computer Science, Fatima College, Madurai	Oct. 2001

12. ARTICLES PUBLISHED IN JOURNALS/PROCEEDINGS/MAGAZINES/BOOKS

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Iss. No.	Page No.	ISSN	Publisher
1.	Nature Inspired Optimization Techniques for Image Processing Applications	Application of Ant Colony Optimization for Enhancement of Visual Cryptography Images	2019	-	-	147-163	978-3-319-96002-9	Springer, Cham
2.	International Journal of Advanced Research in Computer Science and Software Engineering (JIF-2.5)	Application of Genetic Algorithm for Enhanced and Secured Transmission of Secret Images	May 2017	6	7	636-646	2277-128X	Advanced Research International Publication House
3.	Int. Journal of Advanced Research in Computer Science (ICV: 66.64, SJIF: 5.845, ISRAJIF: 3.727, RGIF: 0.29, GIF: 0.765)	Lossless Compression of VC shares in RGB Color Space	Apr. 2017	8	II	79-85	0976-5697	Genexcellence Pvt. Ltd
4.	In Proc. of National Conference on Computational Methods, Communication Techniques and Informatics	Efficient and Secured Image Sharing using Visual Cryptography and Genetic Algorithm	2017	-	-	179-185	978-81-933316-1-3	Shanlax Publications
5.	Artificial Intelligence and Computer Vision, Vol. 672 of the series Studies in Computational Intelligence (SCI, IF-1.05)	Particle Swarm Optimization Based Image Enhancement of Visual Cryptography Shares DOI -10.1007/978-3-319-46245-5_3	2017	672	-	31-49	1860-949X	Springer International Publishing
6.	International Journal of Computer Science & Information Security (Thomson Reuter Indexed – 0.519)	Enhancement of RGB Shares of Visual Cryptography using PSO	2016	14	9	938-952	1947-5500	IJS Publisher and IJCSIS Press
7.	In Proc. of International Conference on Signal Processing, Control and Data Analytics -2016	Security Augmentation of Visual Cryptography using Watermarking Embedded QR Code	2016	-	-	121-127	-	International Society of Scientific Research and Development, San Diego, USA

S. No.	Journal/Proceeding/Magazine/Book Name	Title of the Article	Month / Year	Vol. No.	Iss. No.	Page No.	ISSN	Publisher
8.	International Journal of Advanced Research in Computer Science and Software Engineering (JIF-2.5)	Compression of Visual Cryptography Shares Authenticated using QR Code	2016	6	7	312-324	2277-128X	Advanced Research International Publication House
9.	International Journal of Advanced Research in Computer and Communication Engineering (SJIF-5.947)	A Study on Secret Image Hiding in Diverse Color Spaces (DOI 10.17148/IJARCC.2016.55191)	2016	5	5	779-783	2278-1021	IJARCC
10.	International Journal of Computational Science and Information Technology	Compression of VC Shares (DOI: 10.5121/ijcsity.2016.410657)	Feb. 2016	4	1	57-65	2320-7442	AIRCC Publishing Corporation
11.	Computational Intelligence, Cyber Security and Computational Models – Proceedings of ICC3, Advances in Intelligent Systems and Computing (SCI, If-0.49)	Multilevel Multimedia Security by integrating Visual Cryptography and Steganography Techniques (DOI 10.1007/978-981-10-0251-938)	2016	412	-	403-412	-	Springer, Singapore
12.	In Proc. of National Conference on New Horizons in Computational Intelligence and Information Systems'	Lossless VQ and RLE schemes for Image Compression of VC Shares	Dec. 2015	-	-	84-88	ISBN:978-93-85777-02-8	Excel India Publishers
13.	International Journal of Innovations & Advancement in Computer Science	High level Multimedia Security by incorporating Steganography and Visual Cryptography DIIF – 2.65	Sept. 2015	4	Spl. Iss.	90-98	2347-8616	Academic Science
14.	In Proc. of National Conference on Recent Advances in Computer Science and Applications	A Study on Visual Cryptography using Meaningful Shares	Mar. 2015,	-	-	131-137	978-93-84743-57-4	Bonfring Publications
15.	International Journal of Computer Applications	MSKS for Data Hiding and Retrieval Using Visual Cryptography (DOI 10.5120/18903-0196)	Dec. 2014	108	4	41-47	0975 - 8887	Foundation of Computer Science

13. MAJOR ASSIGNMENTS (CHIEF GUEST / KEYNOTE / JUDGE ETC.)

S. No.	Major Assignment	Institution	Theme/Title	Date
1.	Inaugural Address	Department of Computer Science, Sermathai Vasan College for Women	Vivid Compu Meet 2007	Aug. 10, 2007
2.	Inaugural Address	Jeyaraj Annackiam College	Technical Meet	Mar. 2008
3.	Inaugural Address	Department of Computer Science, Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi	Technovate'12 - Intercollegiate Meet	Feb. 19, 2013

14. PROJECTS UNDERTAKEN

S. No.	Title of Project	Position	Sponsored By	Date & Year	Sanctioned Amount
1.	Visual Cryptography Application for Document Security	Principal Investigator	UGC	Oct. 2009	1,25,000/-

15. ANY OTHER

- Given Training to the Staff in Computer usage and E-Material Production.
- Served as Director of Multimedia Material Production Center and Produced Multimedia CD's for all the Departments of the College. (During Naac, 2005-06).
- Developed and Implemented Software for on-Line Feedback for Faculty.
- Responsible for Implementing on - Line Testing & on - Line Flashing of Messages.
- Offered Honorary Consultancy to Arul Anandar College, Karumathur, by Developing a Package for Data Analysis and Processing
- Offered Honorary Consultancy to St. Xavier College of Education, Kumbakonam, by Developing a Package for Data Analysis and Processing using Visual Basic
- Served as Member of IQAC