

NAME : DR. S. ARUL JOTHI
POSITION : ASSISTANT PROFESSOR
FACULTY OF : COMPUTER SCIENCE
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LANGUAGES PROFICIENCY
READ : ENGLISH & TAMIL
WRITE : ENGLISH & TAMIL
SPEAK : ENGLISH & TAMIL



1. QUALIFICATION

S. No.	DEGREE / DIPLOMA / CERTIFICATE	DISCIPLINE	NAME OF THE INSTITUTION	YEAR OF PASSING
1.	UG	COMPUTER SCIENCE	SRI MEENAKSHI GOVERNMENT COLLEGE FOR WOMEN, MADURAI	1998
2.	PG	COMPUTER SCIENCE	MADURAI KAMARAJ UNIVERSITY COLLEGE, MADURAI	2000
3.	M.PHIL.	COMPUTER SCIENCE	MADURAI KAMARAJ UNIVERSITY, MADURAI	2006
4.	PH.D.	COMPUTER APPLICATIONS	KALASALINGAM UNIVERSITY, KRISHNAN KOIL	2015

2. TEACHING EXPERIENCE

S. No.	INSTITUTION	FROM – TO (PERIOD)
1.	N.M.S. SERMATHAI VASAN COLLEGE FOR WOMEN, MADURAI	2000 - Nov. 2014
2.	ASSISTANT PROFESSOR, FATIMA COLLEGE, MADURAI	Nov. 2014 - TILL DATE

3. POSITION HELD IN FATIMA

S. No.	NAME OF THE POSITION	DURATION
1.	EXTENSION INCHARGE	2015 - 2017
2.	MEMBER, RESEARCH ADVISORY COMMITTEE	2015 - 2018
3.	MEMBER, UGC PROJECT INITIATION COMMITTEE	2016 - 2018
4.	COORDINATOR, CYBER SECURITY CELL	2016 - 2018
5.	MEMBER, WEB COMMITTEE	2017 - 2018 & 2020 - 2022
6.	MEMBER, FONDE	2018 - TILL DATE

4. POSITION HELD OUTSIDE

S. No.	NAME OF THE POSITION	NAME OF THE INSTITUTION	DURATION
1.	MEMBER, BOARD OF STUDIES FOR UG COURSES IN INFORMATION TECHNOLOGY	E.M.G YADAVA WOMEN'S COLLEGE, MADURAI	2017 - 2018

5. AREAS OF SPECIALIZATION

➤ INFORMATION SECURITY

6. ORIENTATION/REFRESHER/TRAINING PROGRAMMES/FDP ATTENDED

S. No.	PROGRAMME	THEME	ORGANIZED BY	DATE
1.	FACULTY INDUCTION PROGRAMME	CAPACITY BUILDING	FATIMA COLLEGE	Nov. 04 - 11, 2016

7. NATIONAL/INTERNATIONAL/STATE/REGIONAL ETC..... SEMINAR, WORKSHOP, CONFERENCE, SYMPOSIUM ETC.....

S. No.	PROGRAMME & THEME	ORGANIZED BY	DATE	PARTICIPATED / PRESENTED	TITLE OF THE PAPER
1.	CONFERENCE ON BRIDGING THE GAP BETWEEN INDUSTRY & INSTITUTION	FATIMA COLLEGE, MADURAI	2006	PARTICIPATED	-
2.	ONE DAY WORKSHOP ON IMAGE PROCESSING WITH IDL PROGRAMMING	KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY, VIRUDHUNAGAR	2007	PARTICIPATED	-
3.	NATIONAL CONFERENCE ON ADVANCES IN APPLIED TECHNOLOGIES	KALASALINGAM UNIVERSITY, KRISHNANKOIL	2008	PARTICIPATED	-
4.	SKILL BASED TRAINING PROGRAM ON J2EE AND BEST PRACTICES IN APPLICATION DEVELOPMENT	MADURAI KAMARAJ UNIVERSITY, MADURAI	2009	PARTICIPATED	-
5.	5 TH INTERNATIONAL CONFERENCE ON FUTURE INFORMATION TECHNOLOGY	FUTURE TECH, BUSAN, SOUTH KOREA	MAY 21-23, 2010	PRESENTED	SYMMETRIC KEY CRYPTOSYSTEM BASED ON RANDOMIZED BLOCK CIPHER
6.	INTERNATIONAL CONFERENCE ON COMPUTERS, COMMUNICATION & INTELLIGENCE	VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI	JULY 22-23, 2010	PRESENTED	A NOVEL RANDOMIZED KEY MULTIMEDIA ENCRYPTION ALGORITHM SECURE AGAINST SEVERAL ATTACKS
7.	NATIONAL SEMINAR ON CONTEMPORARY PROGRESS IN CYBER SPACE	FATIMA COLLEGE, MADURAI	2012	PARTICIPATED	-
8.	NATIONAL CONFERENCE ON INTEGRATION OF TECHNOLOGY & ORGANISATIONAL STRATEGIES (NITOS'15)	PG DEPARTMENT OF INFORMATION TECHNOLOGY, FATIMA COLLEGE, MADURAI	AUG. 21, 2015	PRESENTED	AN OVERVIEW OF BIOMETRIC DATA SECURITY USING VISUAL CRYPTOGRAPHY SCHEMES
9.	AWARENESS PROGRAMME ON CYBER SECURITY	FATIMA COLLEGE, MADURAI	NOV. 21 - DEC. 02, 2016	ORGANISED / PRESENTED	IMPACT OF SOCIAL MEDIA ON CYBER SECURITY
10.	INTERNATIONAL SYMPOSIUM ON "THE ENGINEERING OF DRUG DELIVERY SYSTEMS USING ULTRASOUND RESPONSIVE BIO MOLECULES"	FATIMA COLLEGE, MADURAI	SEPT. 19, 2017	PARTICIPATED	-
11.	INTERNATIONAL SYMPOSIUM ON BIOMEDICAL RESEARCH: CHALLENGES & OPPORTUNITIES	FATIMA COLLEGE, MADURAI	FEB. 07, 2018	PARTICIPATED	-

S. No.	PROGRAMME & THEME	ORGANIZED BY	DATE	PARTICIPATED / PRESENTED	TITLE OF THE PAPER
12.	INTERNATIONAL SYMPOSIUM ON RESEARCH TRENDS IN ARTIFICIAL INTELLIGENCE	MADURAI SIVAKASI NADARS PIONEER MEENAKSHI WOMEN'S COLLEGE, POOVANTHI	DEC. 24, 2018	PARTICIPATED	-
13.	ONE-DAY WORKSHOP ON ENHANCING EMOTIONAL INTELLIGENCE	FATIMA COLLEGE, MADURAI	FEB. 07, 2019	PARTICIPATED	-

8. PARTICIPATION IN VARIOUS PROGRAMMES

S. No.	PROGRAMME	ORGANIZED BY	DATE
1.	INTERCOLLEGIATE RESEARCH FEST – EXPLORIA'16	FATIMA COLLEGE, MADURAI	MAR. 09, 2016
2.	AIACHE GOLDEN JUBILEE GRAND FINALE CELEBRATIONS	AMERICAN COLLEGE, MADURAI	OCT. 07 - 11, 2016
3.	INTELLECTUAL PROPERTY RIGHTS	FATIMA COLLEGE, MADURAI	DEC. 10, 2016
4.	PREVENTIVE-CARE AND CONTROL OF NON-COMMUNICABLE DISEASES FOR MARGINALIZED SOCIAL GROUPS	FATIMA COLLEGE, MADURAI	JAN. 05 - 07, 2017

9. RESEARCH GUIDANCE

M.PHIL. GUIDANCE COMPLETED/ONGOING

S. No.	TITLE OF DISSERTATION	ORGANIZATION	STUDENT NAME	YEAR
1.	REDUCING THE TIME COMPLEXITY OF MEDIAN FILTER USING IMAGE SLICING TECHNIQUE	MADURAI KAMARAJ UNIVERSITY	S. KALA	2007
2.	DISEASE DIAGNOSIS DURING ECG RECORDING USING NEURAL WORKS	VINAYAGA MISSION	S. NIVEETHITHA	2008
3.	DESIGN AND IMPLEMENTATION OF WIRELESS APPLICATION PROTOCOL	VINAYAGA MISSION	A. RAJAM	2008
4.	SURVEY ON WEB USAGE MINING	MADURAI KAMARAJ UNIVERSITY	K. VASANTHA MEENA	2008
5.	MANAGING & ANALYZING LARGE VOLUMES OF DYNAMIC & DIVERSE DATA	MADURAI KAMARAJ UNIVERSITY	S. DEVI	2008
6.	DIGITAL IMAGE WATERMARKING USING DECIMAL SEQUENCES	VINAYAGA MISSION	S. VANAJA	2009
7.	MOBILE COMMUNICATION	VINAYAGA MISSION	L. DEVI	2009
8.	DESIGN AND ANALYSIS METHODS FOR MULTI-AGENT SYSTEMS	VINAYAGA MISSION	R. RANJANI	2009

10. ARTICLES PUBLISHED IN JOURNALS/MAGAZINES/BOOKS

S. No.	JOURNAL/BOOK/MAGAZINE NAME	TITLE OF THE ARTICLE	MONTH/ YEAR	VOL. No.	ISSUE No.	PAGE No.	ISSN	PUBLISHER
1.	IEEE XPLORE	SYMMETRIC KEY CRYPTOSYSTEM BASED ON RANDOMIZED BLOCK CIPHER	MAY 2010	-	-	1-5	DOI:10.1109/9	FUTURE INFORMATION TECHNOLOGY

S. No.	JOURNAL/BOOK/MAGAZINE NAME	TITLE OF THE ARTICLE	MONTH/YEAR	VOL. No.	ISSUE No.	PAGE No.	ISSN	PUBLISHER
2.	INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS	A GENERALIZED KEY SCHEME IN A BLOCK CIPHER ALGORITHM AND ITS CRYPTANALYSIS	JULY 2012	49	9	1-6	0975 – 8887	NEWYORK, USA
3.	JOURNAL OF INFORMATION ENGINEERING AND APPLICATIONS	ENCRYPTION QUALITY AND PERFORMANCE ANALYSIS OF GKSBC ALGORITHM	OCT. 2012	2	10	26-34	2224-5782	IISTE
4.	JOKULL JOURNAL	A NEW APPROACH TO RANDOMIZED KEY IN THE SYMMETRIC BLOCK CIPHER ENCRYPTION ALGORITHM	JULY 2013	63	7	1-10	0449-0576	USA
5.	INTERNATIONAL JOURNAL OF COMPUTER APPLICATIONS IN ENGINEERING SCIENCES	A SURVEY ON DIFFERENT ENCRYPTION TECHNIQUES IN NETWORK SECURITY	MAR. 2014	4	1	1-4	2231-4946	JORHAT: FOUNDATION FOR INTERDISCIPLINARY RESEARCH IN ENGINEERING
6.	INTERNATIONAL JOURNAL OF ENGINEERING AND COMPUTER SCIENCE	A SURVEY OF SIGNCRYPTION ITS TYPES AND TECHNIQUES	MAY 2014	3	5	579 6- 580 0	2319-7242	INDIA
7.	INTERNATIONAL JOURNAL OF ADVANCE RESEARCH IN COMPUTER SCIENCE AND MANAGEMENT STUDIES	HYBRID APPROACH FOR SECURING BIOMETRIC TEMPLATES USING VISUAL CRYPTOGRAPHY	SEP. 2015	3	9	61-65	2321-7782	INDIA
8.	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY	MULTIMODAL BIOMETRIC ENDORSEMENT FOR SECURE INTERNET BANKING USING SKIN SPECTROSCOPY, KNUCKLES TEXTURE AND FINGER NAIL RECOGNITION	FEB. 2016	3	2	108 6- 109 0	2395-0056	ESAT PUBLISHING HOUSE
9.	INTERNATIONAL JOURNAL OF COMPUTER TRENDS AND TECHNOLOGY	DEFENDING BIOMETRIC TEMPLATES BY MULTILEVEL AUTHENTICATION USING BIOCRYPTOGRAPHY AND STEGANOGRAPHY TECHNIQUES	JUNE 2016	36	1	43-47	2231-2803	SEVENTH SENSE RESEARCH GROUP
10.	INTERNATIONAL JOURNAL OF ADVANCED ENGINEERING, MANAGEMENT AND SCIENCE	A PERFORMANCE ANALYSIS OF GENERALIZED KEY SCHEME BLOCK CIPHER (GKSBC) ALGORITHM TO CRYPTANALYTIC ATTACKS	JULY 2016	2	7	983 - 987	2454-1311	INFOGAIN PUBLICATION
11.	IOSR JOURNAL OF ENGINEERING (IOSRJEN) UGC APPROVED	EVALUATION OF SYMMETRIC KEY CRYPTOSYSTEM BASED ON RANDOMIZED KEY BLOCK CIPHER ALGORITHM TO CRYPTANALYTIC ATTACKS	FEB. 2019	9	2	1-4	2250-3021	INTERNATIONAL ORGANIZATION OF SCIENTIFIC RESEARCH
12.	INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH UGC APPROVED	A NEW PERMUTATION BASED RANDOMIZED NEIGHBORHOOD-XOR MODULO ALGORITHM	FEB. 2019	14	3	604-608	0973-4562	RESEARCH INDIA PUBLICATIONS

11. MAJOR ASSIGNMENTS

S. No.	MAJOR ASSIGNMENT	INSTITUTION	THEME/TITLE	DATE
1.	COORDINATOR	CYBER SECURITY CELL, FATIMA COLLEGE	AWARENESS PROGRAMME AND WORKSHOP ON CYBER SECURITY	21.11.2016 - 02.12.2016
2.	TALK	FATIMA COLLEGE	IMPACTS OF CYBER SECURITY IN SOCIAL MEDIA	21.11.2016 - 02.12.2016
3.	GUEST LECTURE DELIVERED	DEPARTMENT OF CS AND IT, KALASALINGAM UNIVERSITY	SECURITY ISSUES IN CLOUD COMPUTING	17.02.2017
4.	GUEST LECTURE DELIVERED	NATIONAL SEMINAR BY DEPARTMENT OF COMPUTER SCIENCE AND COMPUTER APPLICATIONS, N.M.S. SERMATHAI VASAN COLLEGE FOR WOMEN	APPLIED CRYPTOGRAPHY ON SOCIAL NETWORKS	27.03.2017
5.	GUEST LECTURE DELIVERED	DEPARTMENT OF INFORMATION TECHNOLOGY, MADURAI SIVAKASI NADARS PIONEER MEENAKSHI WOMEN'S COLLEGE, POOVANTHI	CREATING DYNAMIC WEB SITES WITH PHP AND MYSQL	27.12.2017
6.	GUEST LECTURE DELIVERED	CYBER SECURITY CELL, FATIMA COLLEGE	IOT BASED GATEWAY FOR SMART SECURITY	04.04.2018
7.	GUEST LECTURE DELIVERED	DEPARTMENT OF CS AND IT, KALASALINGAM UNIVERSITY	NETWORK SECURITY ALGORITHMS	18.04.2018
8.	GUEST LECTURE DELIVERED	VALEDICTORY ADDRESS FOR DEPARTMENT OF COMPUTER SCIENCE, C.S.I. COLLEGE OF ARTS & SCIENCE FOR WOMEN	NETWORK SECURITY	18.02.2019
9.	GUEST LECTURE DELIVERED	INTERNATIONAL ONLINE FACULTY PROGRAMME ON DATA DRIVES	THE ART OF CRYPTOGRAPHY - ALGORITHMIC CRYPTANALYSIS	15.07.2020 - 18.07.2020
10.	GUEST LECTURE DELIVERED	DEPARTMENT OF COMPUTER SCIENCE, ASSOCIATION INAUGURATION, V.V.VANNIAPERUMAL COLLEGE FOR WOMEN	CRYPTOGRAPHIC SECURITY ANALYSIS: A REVIEW	08.10.2020

12. BOOKS PUBLISHED

S. No.	BOOK NAME	YEAR	PUBLISHER	ISBN
1.	INTRODUCTION TO COMPUTER GRAPHICS	2008	PRINTMAGIC	978-81-907693-8-9
2.	PRINCIPLES OF DATABASE SYSTEMS	2008	PRINTMAGIC	978-81-907693-9-6

13. MEMBER IN EDITORIAL BOARD OF NATIONAL/INTERNATIONAL JOURNALS

- JOURNAL OF ENGINEERING AND COMPUTER INNOVATIONS
- SECURITY AND COMMUNICATION NETWORKS

14. ACHIEVEMENTS

S. No.	NAME OF THE AWARD	AWARD RECEIVED FOR	SPONSORS / SOURCE	DATE
1.	BEST PAPER AWARD	PAPER PRESENTATION	INTERNATIONAL CONFERENCE ON COMPUTERS, COMMUNICATION & INTELLIGENCE	JULY 22 & 23, 2010

15. FOREIGN COUNTRIES VISITED ON ACADEMIC ASSIGNMENTS/TRAINING/INVITED PROGRAMME

- VISITED BUSAN, SOUTH KOREA FOR 5TH INTERNATIONAL CONFERENCE ON FUTURE INFORMATION TECHNOLOGY ON MAY 21-23, 2010 FOR PAPER PRESENTATION.

16. ANY OTHER

➤ MEMBER OF ORGANIZING COMMITTEE

1. SECOND INTERNATIONAL CONFERENCE ON CIRCUITS AND SYSTEMS (CIRSY-2015), AUGUST 28 & 29, 2015, DUBAI, UAE.
 2. SECOND INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING (ELE 2015), AUGUST 28 & 29, 2015, DUBAI, UAE.
 3. SECOND INTERNATIONAL CONFERENCE ON ADVANCED COMPUTING (ADCO-2015), JANUARY 2 & 3, 2016, ZURICH, SWITZERLAND.
 4. THIRD INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND APPLICATIONS (AIAPP 2016), MARCH 26 & 27, 2016, GENEVA, SWITZERLAND.
 5. THIRD INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (COSIT-2016), MAY 21 & 22, 2016, VIENNA, AUSTRIA.
 6. THIRD INTERNATIONAL CONFERENCE ON SIGNAL AND IMAGE PROCESSING (SIGL 2016), MAY 21 & 22, 2016, VIENNA, AUSTRIA.
 7. 6TH INTERNATIONAL CONFERENCE ON COMPUTER SCIENCE, ENGINEERING AND INFORMATION TECHNOLOGY (CCSEIT 2016), MAY 21 & 22, 2016, VIENNA, AUSTRIA.
 8. FIFTH INTERNATIONAL CONFERENCE ON ADVANCED COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (ICAIT 2016), MAY 28 & 29, 2016, SYDNEY, AUSTRALIA.
 9. FIFTH INTERNATIONAL CONFERENCE ON DIGITAL IMAGE PROCESSING AND VISION (ICDIPV 2016), MAY 28 & 29, 2016, SYDNEY, AUSTRALIA.
 10. THIRD INTERNATIONAL CONFERENCE ON CIRCUITS AND SYSTEMS (CIRSY-2016), AUGUST 27 & 28, 2016, DUBAI, UAE.
- REVIEWER IN INTERNATIONAL CONFERENCE ON ELECTRONICS AND OPTOELECTRONICS (ICEOE) ON JULY 27 - 29, 2012 IN LIAONING, CHINA.