

PROFILE

Name of the Faculty	Dr.T.GRACESHALINI		
Qualification	M.E,M.B.A,Ph.D		
Department	Computer Science and Engineering		
Designation	Assistant Professor		
Official Address	Velammal College of Engineering and Technology, Madurai		
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Educational Qualification:

Name of the Degree	Specialization	Year of Passing	Name of the College & University	Remarks
B.E	CSE	2003	Magna College of Engineering, Madras University	First Class
M.E	CSE	2015	Velammal College of Engineering and Technology, Anna University	First Class With Distinction
M.B.A	CSE/System Software	2010	Kamaraj University	Second Class
Ph.D	VANETS	2022	Anna University	Completed

Experience (Academic Institutions):

Name of the College	Designation	Experience	
		Year	Months
Velammal College of Engineering and Technology, Madurai	Assistant Professor	5	02
Total		5	02

Funded Research Projects:

Name of the Faculty : Dr.T.GraceShalini

Position in Project (PI/CO PI) :CO PI

Title of the project : Smart CPR

Funding agency :MSME-CIPD

Amount :14.95 Lakhs

2. Software developed for Cardiology Department in Velammal Medical College
3. Won Prize in Three Idiots competition, Software for Examination, Velammal College of Engineering and Technology

Patent Publication

1. PATENT APPLICATION PUBLICATION ,Application No.202041055425 A , INDIA, Date of filing of Application :20/12/2020,Publication Date : 25/12/2020, **Title of the invention : LOW COST VIRUS FREE AIR CIRCULATOR FOR PPE**
2. PATENT APPLICATION PUBLICATION Application No.202041055662 A , INDIA ,Date of filing of Application :22/12/2020 ,Publication Date : 22/01/2021, **Title of the invention : CHILDREARING SUPPORT SYSTEM AND INFANT SENSOR DEVICE USNG IOT**
3. PATENT APPLICATION PUBLICATION , Application No.202041049358, INDIA, Date of filing of Application :11/11/2020 , Publication Date : 20/11/2020, Title of the invention : **VOICE BASED PATIENTS MONITORING SYSTEM USING ARTIFICIAL INTELLIGENCE**
4. PATENT APPLICATION PUBLICATION ,Application No.202141008351, INDIA, Date of filing of Application :27/02/2021 ,Publication Date : 05/03/2021,Title of the invention : **IOT BASED SMART FARMING USING MACHINE LEARNING TECHNIQUES**

Publications

1.	An Approach for Intersection Prevention in Transmission Channel Using Correlation Matrix and Tree Construction Model in V2X Framework , Wireless Personal Communications, Volume No 125(1), pages 305-324, July 2022, Impact factor : 1.671 Listed in ANNA UNIVERSITY ANNEXURE 1.
2.	"MEDITRACK SYSTEM" , Two-day Virtual National Conference on Sustainable Infrastructure with Responsible Consumption and Production(SIRCP), on March 24th-25 th ,2022.
3.	"An Optimal Energy Competent Mission-based Collision Avoidance Protocol Scheme for Multi-Rotor UAVs" AICTE Sponsored International Conference on Emerging Trends in Communication and Networking (ETCAN'21), Grenze International Journal of Engineering and Technology, Jan Issue 2022, Volume 8, Issue 1
4.	"ENERGY CONSUMPTION AND TREND PREDICTION USING MACHINE LEARNING" in the AICTE Sponsored International e-Conference on Machine Learning and Cyber Security in Industry 4.0 (MLCSI-21),from 20-10-2021 to 21-10-2021.
5.	" Enhanced Hybrid Dual Channel Algorithm (EHDC) for Data Dissemination in VANETs " has been " Accepted for Publication in SSRG International Journal of Computer Science and Engineering IJCSE - July 2021
6.	Weighted Greedy Approach for Low Latency Resource Allocation on V2X Network , Wireless Personal Communications, Volume No.119 (3), 2303-2322, March 2021. Impact factor : 1.671 ,Listed in ANNA UNIVERSITY ANNEXURE 1
7.	Detecting Malaria using Machine Learning , International Journal of Innovative Research in Computer and Communication Engineering, Volume 8, Issue 5, May 2020
8.	Intelligentpower Controller Manage and Reduce over Power Utilization , International Journal of Pure and Applied Mathematics, Volume 119 No. 15 2018, 1719-1725,June 2018. SCOPUS INDEXED JOURNAL

9.	Virtual Assignment Forum, International Research Journal of Engineering Sciences, Volume 4 Issue 1 June 2018.
10.	GPS Bus Tracking and Announcement System”IER-AET-2018”, International Journal of Advanced Research Methodology in Engineering & Technology - 2018, ISSN 2456-6446, Volume 2, Issue 1, January 2018
11.	Critical Data Aggregation and Dissemination in VANETS using Cognitive Agents International Journal of Applied Engineering Research [listed in Annexure 2 of Anna University], as Special issue volume no :10, issue no:55, 2015
12.	A detail description about Agent Technologies in Wireless Sensor Networks, International Journal of Applied Engineering Research [listed in Annexure 2 of Anna University],January 2015
13.	Random Pairwise Key Distribution Scheme for Wireless Network ,International Journal of Wireless Communication ISSN : 0974 -9640, April 2014.
14.	Supervised method for face image retrieval based on Euclidean distance, International Journal of Innovative Research in Science , Engineering and Technology, Volume 3 ,March 2014

International Conferences:

1. Dr.T.GraceShalini, Online Smart GYM Management System, International Conference on New Scientific Creations in Engineering and Technology "ICNSCET -2022" ,on 16th March 2022
2. Mrs.T.Graceshalini "DRIVER ALERTNESS DETECTION" Proceedings of the International on Science and Innovative Engineering ,(ICSIE-2019) on 24th March 2019
3. Mrs.C.B.Selvalakshmi, Mrs.T.Graceshalini, Mrs.SanthaSheela GPS Bus Tracking and Announcement System IER-AET-2018, held at Institute of Engineering Research, Salem.
- 4.T.GraceShalini, G.Vinoth Chakkavarthy,Critical Data Aggregation and Dissemination in VANETS using Cognitive Agents ICAAET -2015, held at Syed Ammal Engineering College, Ramanathapuram.
- 5.T.GraceShalini, S.Padma Devi, A detail description about Agent Technologies in Wireless Sensor Networks ISCO-15, held at Karpagam college of Engineering,Coimbatore.
- 6.T.Grace Shalini, D.Divya,Random Pairwise Key Distribution Scheme for Wireless Network ,avanzare2k14 held at Sethu Institute of Technology, Virudhunagar.
- 7.T.Grace Shalini, K.R. Manikandan, Supervised method for face image retrieval based on Euclidean distance,ICIET -14,held at KLN College of Engineering, Sivangangai.

Book Publications

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Title	Publishers	Year
"Programming and Data Structures-II"	Charulatha Publication	2017
"Programming in C"	Jayalakshmi Publication	2018

"Artificial Intelligence and Machine Learning ”	AKINIK Publication	2018
“Geographic Information System”	Technical Publication	2019
Computer Graphics and Multimedia	Technical Publication	2019
Global Positioning System	Technical Publication	2019
Human Rights	Technical Publication	2020
Foundation Skills in Integrated Product Development	Technical Publication	2020
Fundamentals of NanoScience	Technical Publication	2021
Web Scripting	Technical Publication	2021
Scripting languages	Technical Publication	2022
Software Process and Project Management	Technical Publication	2022

Seminars and workshop Attended:

- Five Days online Faculty Training Programme on " Recent Trends in Cyber Security " sponsored by Information Security Education and Awareness(ISEA) Phase 2, College of Engineering Guindy, Anna University,13th June to 17th June 2022
- AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Artificial Intelligence for Computer Vision" from 2021-07-12 to 2021-07-16 at Indian Institute of Technology, Roorkee.
- Learning (ATAL) Academy Online FDP on Block Chain from Nitte Mahalinga Adhyanthaya Memorial Institute of Technology(NMAMIT), 12.10.2020- 16.10.2020
- 5 Days Online Faculty Development Program (FDP) on R Programming organized by Indo Global Group of Colleges, New Chandigarh in association with IIT Bombay Spoken Tutorial in January 2020
- Webinar on BlockChain Technology in Google Hangouts held on 04-05-2020 VLB Janakiammal college of Arts and Science A Seven-Day Workshop for the Faculty - Teaching Beyond Curriculum organized by IQAC, Vellalar College for Women, June 2020
- Faculty Development Program on R- Programming held by Department of Computer Science & Engineering, SKN Sinhgad College of Engineering, Pandharpur, Maharashtra in association with Spoken Tutorial IIT Bombay, Mumbai, in January 2020
- Interactive Webinar on How to Write a Research Article, Seminar and Thesis , NIT Calicut, organized by Department of Civil Engineering, School of Engineering and Technology, Sandip University Nashik, on 11.05.2020
- IT Live webinar on Forensic and Incidents Response on May 17, 2020.-PSNA
- IT Live webinar on Embracing Open Source - An Introduction to Open Source Stack on May 17, 2020.-PSNA
- Three day Online Faculty Development Programme on Improving Your Research Visibility Research Impact and Metrics jointly organized by Research and Development Cell and Internal Quality Assurance Cell from 11th May to 13 th May 2020. -VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

- EDUCATION 4.0 The Future of Learning in the Pandemic World on 22nd May 2020, organized by Internal Quality Assurance Cell (IQAC), P.S.R. Engineering College, Sivakasi, Tamilnadu, India.
- Webinar on Introduction on Full stack Development Java Script on May 18 2020.-PSNA
- IT Live webinar on Glimpse of Ethical Hacking on May 23, 2020.-PSNA
- Live webinar on ML & Data Pro6 Processing organised on 16.05.2020 by Department of Information Technology.-PSNA
- Live webinar on Web ApplicationDevelopment organised on 16.05.2020 by Department of Information Technology.-PSNA
- HANDS ON FDP-DATA SCIENCE USING PYTHON JEPPIAR INSTITUTE OF TECHNOLOGY 18.5.20-22.5.20
- Online Webinar on Be Future Ready - Post COVID University of Technology, June 3&4, 2020
- AICTE sponsored Two Week Faculty Development program on Outcome based Education- Innovative Teaching Learning Practices and Evaluation, in Velammal College of Engineering, June 2019
- AICTE ISTE sponsored six days Induction refresher Programme-Cloud computing and Big Data Analytics-Challenges and solutions, in Velammal College of Engineering, December 2018
- AICTE ISTE sponsored six days Induction refresher Programme on Pedagogical innovations and Best practices for Skill based Academic leader, at KLN college of Information Technology, May 7-12, 2018
- Attended AICTE-approved FDP on Foundation Program in ICT for Education”, IIT Bombay, Mar-Apr 2018
- Attended AICTE sponsored FDP on IOT in KLNCIT, December 2017
- Attended AICTE sponsored Workshop on Python, in Velammal College of Engineering, August 2017
- Attended National level Workshop on Simulation and Emulation of Self Organized Networks in Kongu Engineering College, September 11-13 2014
- Attended Workshop on Effective Research and Technical Paper Writing in Kongu Engineering College, September 6, 2014
- Participated in Innovative Project Contest in K.L.N College of Engineering, March 7, 2014
- Attended Android App Development Workshop as a part of XCEED KURUKSTHETRA, Thiagarajar College of Engineering, January 25, 2014

Online Certification/Industry Certification :

Sl.No	Academic year	Course Name	Certification provided by
1	2017-2018	1. Spoken tutorial :Certificate for Completion of LaTeX Training-June 2018 2. FDP201x Pedagogy for Online and Blended Teaching-Learning Process-Apr -2018 3.. FDP101x Pedagogy for Online and Blended Teaching-Learning Process-Apr-2018	IITBombayX IITBombayX IITBombayX
2	2018-2019	1. CS101.1x Programming Basics ,Mar- Dec 18, 2018	IITBombayX

		<ol style="list-style-type: none"> 2. SKVIZ101x Fundamentals of 3D Visualization,Oct-2018 3. ET702x Designing Learner-Centric MOOC,Sep-2018 4. Software Development Security -,Feb 2019 5. C TUTORIAL Course,Feb-2019 6. SQL Fundamental Course-Feb 2019 7. Project Management Professional -,March 2019 8. Virtulization Management March 2019 	<p>IITBombayX</p> <p>IITBombayX</p> <p>CYBRARY</p> <p>SOLO LEARN</p> <p>SOLO LEARN</p> <p>CYBRARY</p> <p>CYBRARY</p>
3	2019-20	<ol style="list-style-type: none"> 1. CS101.2x Object Oriented Programming Aug19-Dec19 2. Spoken tutorial :Certificate for Completion of Moodle Test for Teachers Training Dec 19 	<p>IITBombayX</p> <p>IITBombayX</p>
4	2021-22	<ol style="list-style-type: none"> 1. Basics of Python 2. Advanced Python Concepts June 2022 3. 3.3 How to peer review a review article,June, 2022 	<p>Infosys SpringBoard</p> <p>Elsevier Researcher Academy</p>

Interested Research Areas : Networks, IOT , Artificial Intelligence ,VANETS.