

CURRICULAM VITAE

Name	Dr. S SENTHILKUMAR, M.E., Ph.D.,
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Academic Qualifications:

Degree	Specialization	University	Year	Class
Ph.D.	Information & Communication Engineering	Anna University, Chennai.	2015	-
M.E.	Computer Science and Engineering	College of Engineering Guindy (CEG) Anna University, Chennai.	2005	FIRST
M.C.A	Master of Computer Applications	Bharathidhasan University, Trichy	1998	FIRST

Teaching Experience

S.No.	Institution	Department	Designation	Period
01	University College of Engineering, BIT Campus, Tiruchirappalli. (Anna University Chennai)	Computer Science and Engineering	Assistant Professor	12-07-2023(AN) To Till date
02	University College of Engineering, Pattukkottai (Anna University Chennai)	Computer Science and Engineering	Assistant Professor	11-12-2009 To 12-07-2023 (FN)
03	Thiruvallur College of Engineering and Technology, Vandavasi.	Computer Science and Engineering	Assistant Professor	16-06-1999 to 10-12-2009

Additional Responsibilities

- Head of the Department in Computer Science and Engineering till 12-07-2023
- Core Committee Member–Staff, Students Grievances and Purchase – UCE Pattukkottai till 12-07-2023
- Coordinator - Unnat Bharat Abhiyan (UBA), Ministry of Education (MoE), Govt. of India till 12-07-2023
- Coordinator, Kani Tamil Peravai, Tamil Virtual Academy, Govt. of Tamilnadu till 12-07-2023
- SPOC-SWAYAM NPTEL Local Chapter-UCE Pattukkottai
- Deputy Warden(Men's Hostel)
- Exam Cell Coordinator
- EDU-SAT Coordinator
- RRC and YRC Coordinator till 12-07-2023
- Supervisor, TNEA 2017 admission, UCE - Pudukkottai.
- Coordinator – AICTE Approval Process till 12-07-2023

Research Guidance

Ph.D. Scholars Guided	Ph.D. Scholars Thesis Submitted	No. of Ph.D. Scholars on Going
06	-	04

List of Research Scholars who have completed their Ph.D. / M.S (By Research)

S.No	Degree	Name of the Scholar	Reg. No.	Title of the Thesis	Viva Date
1.	Ph.D.	Sivaram P	7076062143	THE STUDIES ON CERTAINTY OF OPERATIONS FOR CONTINUOUS RUN OF VEHICLES ON ROAD ENVIRONMENT USING VANET WITH EFFICIENT EVENT NOTIFICATIONS	04.10.2017
2.	Ph.D.	Thiyagarajan P	17144597211	A FRAME WORK OF OPTIMIZED ENERGY CONSUMPTION TECHNIQUES FOR EFFICIENT DATA COMMUNICATIONS IN MOBILE ADHOC NETWORKS	08.07.2020
3.	Ph.D.	Anitha Josephine J	17244597412	A FRAMEWORK ON TRUST MANAGEMENT TECHNIQUES FOR OPTIMAL SECURE COMMUNICATIONS IN MOBILE ADHOC NETWORKS	28.07.2021
4.	Ph.D.	Peer Mohamed Ziyath S	17144591408	AN EMPIRICAL STUDY ON OPTIMAL RESOURCE SCHEDULING TECHNIQUES FOR CLOUD INFRASTRUCTURE SERVICES	20.12.2021

5	Ph.D.	Surendar U	1744597259	INVESTIGATION AND OPTIMIZATION OF MIMO ANTENNA USING DIFFERENT MEANDER LINE AND ASYMMETRIC SRR CONFIGURATIONS FOR ADVANCED WIRELESS COMMUNICATION SYSTEMS	19.02.2022
6	Ph.D	Sudhakar.K	21144591131	A NOVEL DETECTION OF INTRUSION ATTACKS USING MACHINE LEARNING TECHNIQUES IN INDUSTRIAL IoT	10.08.2023

Research Fundings

Sl. No.	Project Scheme	Sanctioned No. & Date	Role	Funding Agency	Amount	Status
01.	Mission Amrit Sarovar – Jal Dharohar Sanrakshan (MAS-JDS) Internship	1-1 /NEAT/AMRIT/ 2022-23/AMS- MDS/312 Dated:22 nd Aug 2022	Institution Nodal Officer (INO)	AICTE	2,00,000	Completed

Publication List:

Sl. No.	Title of Paper	Authors	Name of the Journal	Volume & Issue	Year of Publication
01.	Weibull Distributive Feature Scaling Multivariate Censored Extreme Learning Classification for Malicious IoT Network Traffic Detection	Senthilkumar S, Sudhakar K	IETE Journal of Research Taylor & Fransis	DOI https://doi.org/10.1080/03772063.2023.2192426	2023
02.	Machine Learning Based Industrial Engineering with 6G Technology	Senthilkumar S, Sudhakar K	Journal of Pharmaceutical Negative Results Open Journal Systems	Vol. 13, Special issue 09, pp. 372-385	2022
03.	A Compact Phased Array Antenna for 5G MIMO Applications	Senthilkumar S, Surendar U	Wireless Personal Communications, SPRINGER	Vol. 128, issue 03, pp. 2155-2174	2022
04.	A Novel approach for Network Vulnerability Analysis in IIoT	Senthilkumar S, Sudhakar K	Computer Systems Science & Engineering Tech Science Press	Vol. 45, issue 01, pp. 263-277	2022
05.	A Dual-polarized Metamaterial	Senthilkumar S,	Applied Physics A	Vol. 128, issue 07,	2022

	Spiral MIMO Antenna for 5G applications	Surendar U	Materials Science & Processing, SPRINGER	pp. 607	
06.	An Improved Q-Learning-Based Scheduling Strategy with Load Balancing for Infrastructure-Based Cloud Services	Senthilkumar S, S.peerMohamed Ziyath	Arabian Journal for Science and Engineering, SPRINGER	Vol. 47, issue 08, pp. 9547-9555	2021
07.	Design of Low-Cost Miniaturized Metamaterial-Based Circular Split-Ring Monopole Radiating System for LTE Applications	Senthilkumar S, Surendar U	Journal of Circuits, Systems and Computers, World Scientific Publishing Company	Vol. 30, issue 13, pp. 215-233	2021
08.	A Compact Meta material-Based Open-Ended CPW Band-Pass Filter for Wireless Applications	SenthilkumarS, Surendar U	Arabian Journal for Science and Engineering, SPRINGER,	Vol. 47, issue 03, pp. 3473-3480	2021
09.	Tanimoto Support Vector Regressive Linear Program Boost Based Node Trust Evaluation for Secure Communication in MANET	Senthilkumar S, J Anitha Josephine	Wireless Personal Communications, SPRINGER,	Vol. 117, issue 04, pp. 2973-2993	2021
10.	WifiEnabledHomeAutomation UsingESP8266	Senthilkumar S, FarhanaJ	International Journal of Computer Science,	Vol. 9, issue 01, pp. 2586-2590	2021
11.	The Study on Static and Dynamic Energy Efficient Optimization Techniques in MANET	Senthilkumar S, Thiyagarajan P	International Journal of Scientific & Technology Research,	Vol. 9, issue 01, pp. 1779-1783	2020
12.	Statistical Markov Model Based Natural Inspired Glowworm Swarm Multi-Objective Optimization for Energy Efficient Data Delivery in MANET	Senthilkumar S, Thiyagarajan P	Information Technology and Control, Kaunas University of Technology.	Vol. 49, issue 02, pp. 433-447	2020
13.	Power efficient Memetic Optimized and Adjacent Exponentially Distributed Routing in Mobile AdHoc Networks	Senthilkumar S, Thiyagarajan P	Computer Communications, ELSEVIER	Vol. 150, pp. 209-215	2020
14.	MHO: Meta heuristic optimization applied task scheduling with load balancing technique for cloud infrastructure services	Senthilkumar S, S. peer Mohamed Ziyath	Journal of Ambient Intelligence and Humanized Computing, SPRINGER	Vol. 12, pp. 6629-6638	2020
15.	Detection and Avoidance of Input Validation Attacks in	Senthilkumar S,	Journal of Automation and	Vol. 51, issue 9	2019

	Web Application Using Deterministic push down Automata	Nithya V	Information Science BEGELL HOUSE		
16.	Vanet Based Event Notifications: In-Vehicles' Internal And External-Certainty Of Operations To Provide Continuity Of Travel On The Road Environment	Sivaram P, Senthilkumar S	International Journal of Pharmacy & Technology	Vol 9, issue 1, pp. 28715-28727	Apr. 2017.
17.	A Detailed Study on Security Services in Cloud Environment	Rajakumar S, Anakath.A.S, Senthilkumar S	IEEE Second International Conference on Recent Trends and Challenges in Computational Models	pp. 13-18,	2017
18.	Second Minimum Weight Spanning Tree of A Network with Triangular Intuitionistic Fuzzy Number As EdgeWeight	S.Ismail Mohideen, Rajesh B, Senthilkumar S	International Journal of Engineering Research & Technology	Vol. 4, pp. 41-41	2016
19.	An Efficient On the Run in-Vehicle Diagnostic and Remote Diagnostics Support System in VANET	Sivaram P Senthilkumar S	Middle-East Journal of Scientific Research	Vol. 24, pp. 3542-3553	2016
20.	Event Notification in VANET with Traffic Congestion Detection and Congestion Avoidance	Sivaram P Senthilkumar S	International Journal of Printing, Packaging & Allied Sciences,	Vol. 4, pp. 580-591	2016
21.	A Survey on Trust Management for Mobile AdHoc Networks	Satyajothi J Senthilkumar.S Rajesh.B	International Journal of Engineering Research & Technology, RIP	Vol. 4, pp. 68-75	2016
22.	A Novel Routing algorithm for selfish node detection for optimal data transmission in Mobile Adhoc Network	Senthilkumar S J.William	AsianJournalofInformationTechnology, Medwell Journals.	Vol.15, pp. 378-383	2016.
23.	A distributed framework for detecting selfish nodes in MANET using Record- and Trust-Based Detection (RTBD) technique	Senthilkumar S, William Johnson Karthikeyan Subramaniyan	EURASIP Journal on Wireless Communications and Networking, SPRINGER	Vol. 205, pp. 1-10	2014
24.	A Detailed Study of Data Replication Techniques in MANET	Senthilkumar S William J	International Journal of Applied Engineering Research, RIP	Vol. 09, pp. 22435-22445	2014
25.	Performance Evaluation of MANET Using Static and	Senthilkumar S William J	International Journal of Applied	Vol. 10, pp. 13097-13108	2014

	Dynamic Data Replication Strategies		Engineering Research, RIP		
26.	A Survey on Reputation Based Selfish Node Detection Techniques in Mobile AdHoc Network	Senthilkumar S William J	Journal of Theoretical and Applied Information Technology,	Vol. 60, pp. 208-215	2014
27.	A comparative survey of routing protocols in mobile	Senthilkumar S, Ananthampillai	Elixir Comp. Sci. & Engg,	Vol. 37, pp. 4106-4108	2011

Patent List:

Sl.No	Authors	Patented Title	Date
01.	Dr.Senthilkumar S Dr.R.Regan	Modern Education Learning Possibilities Using Blockchain and Artificial Intelligence Technology	16-06-2022
02.	Dr.A Amirtha Saravanan, Dr.Senthilkumar S	Method of Securing Visual Data Transmission through Visual Cryptography	Journal No. 42 / 2019 Dated 18-10-2019.

Books Published:

Sl.No.	Authors	Book Title	Publisher Details
1.	Dr.S.Senthilkumar, Ponnusamy Sivaram	“Perspectives on Social Welfare Applications” Optimization and Enhanced Computer Applications	IGI Global Publisher of Timely Knowledge
2.	Dr.J.Paranthaman, Dr.S.Senthilkumar, Mr.A.Ramachandran	Information Management	Sri Krishna Hi-tech Publishing Company.
3.	Dr.S.SenthilKumar, Dr.S.Anakath	Information Technology Essentials	Sri Krishna Hi-tech Publishing Company
4.	Dr.S.SenthilKumar, Dr.S.Anakath, Ms.V.Nithya	Information Technology Essentials – Lab Manual	Sri Krishna Hi-tech Publishing Company

Book Chapter Published:

Sl.No.	Authors	Title of Chapter	Publisher Details
1.	Dr.S.Senthilkumar, J.Anitha Jospjine, R.Rajkumar, C.M.Arun Kumar	An Optimal and Authentic Communication System Based on Authorization Card Repudiation to Perform a Secure Data	On Internet of Things. SPRINGER. 2023

		Communication in MANET	
2.	Dr.S.Senthilkumar, J.Anitha Jospjine, R.Rajkumar, C.M.Arun Kumar	Detection of Authorized Nodes to Provide an Optimal Secure Communication in Amalgamated Internet MANET	On Internet of Things. SPRINGER. 2023
3.	Dr.S.Senthilkumar, S. Peer Md Ziyath, R.Rajkumar, C.M.Arun Kumar	NEORS - Novel Efficient and Optimal Resource Scheduling Technique for Cloud Infrastructure Services	On Internet of Things. SPRINGER. 2023
4.	Dr.S.Senthilkumar, S.Ambika, A.S.Anakath, S.Rajakumar	Centralized key distribution protocol using identity-based encryption techniques in cloud computing environments On Secure Data Management for online Learning Applications	CRC Press, Taylor and Francis. 2023
5.	Senthilkumar S, R Regan, Thiyagarajan P, Venkatachalam	Semi-Supervised Machine Learning Algorithm for predicting Diabetics using Big Data Analytics	On Business Intelligence for Enterprise Internet of Things. SPRINGER
6.	Surendar U, Senthilkumar S, William Johnson	Planar Metamaterial-Inspired Circular Ring Antenna With Neutralization Lines for Dual-Band Applications, Hand book of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network,	IGI Global Publisher
7	Senthilkumar Subramanian, Nithya Venkatachalam, Regan Rajendran	A Novel Phishing Attack Prediction Model With Crowdsourcing in Wireless Networks	IGI Global Publisher

International Conference Publications:

Sl.No.	Title	Organizer	Dated
1.	Optimization of Page rank algorithm using Parallelization Methods	(IC-RACT 2022) Amity School of Engineering, Amity University, Mumbai	11 th March, 2022
2.	A Survey of Optimization in Multi- classification from A Machine Learning Perspective	AICTE Sponsored Virtual International Conference on Impact of IoT and Machine Learning in Mechanical Engineering, ICIIMLME'21	3 rd &4 th August, 2021
3.	A Comprehensive Analysis of Machine Learning Techniques for Securing IOT	International E-Conference on Recent Advances in Computation, Communication, Internet of Things and Artificial Intelligence, ICRACIA-2021	March, 2021.
4	Detection and Avoidance of Gray Hole and Black Hole Attacks in	International Conference on Multidisciplinary	March, 2019

	Mobile Ad-hoc Networks(MANET) using Trust based Clustering	Research, ICMR'19	
5	URL based Phishing Detection System using Phishing Alarm	National Conference on Deep Learning – Medical Applications	16 th March, 2019.
6	An Improvised Scheme for Web Cross-Site Request Forgery based on Support Vector Machine Benchmarking Approach	International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, IC3DIET-18	2018.
7	An Energy Saving Approach in Mobile Ad-hoc Networks (MANET)	International Conference on Discrete Mathematics & Data Sciences, ICDMDS'18	28 th &29 th September, 2018
8	A Study of Input Validation Attacks(IVAs) in Web Application	International Conference on Discrete Mathematics & Data Sciences, ICDMDS'18	28 th &29 th September, 2018
9	Double Negative Material Based Miniaturized Passive Planar S-Shaped Radiator	International Conference on Advances in Electrical and Computer Technologies, ICAECT-2020	12 th June, 2018
10	An Efficient Mutual Authentication Scheme with Secure Key Exchange in Cloud Based E-health System	IEEE Indicom 2018, BVICAM – NewDelhi	15 th -17 th March, 2018
11	Trust Classification, Trust Attacks and Trust Secured Solutions in Mobile Ad-hoc Networks	International Conference on Innovations in Engineering Technology and Science, ICIETS'18	March,2018
12	A Study of Trust Management Techniques in Mobile Ad-hoc Networks	International Conference on Innovations in Engineering Technology and Science, ICIETS'18	March, 2018
13	A Study of Trust Management Techniques in MANET	National Conference on Recent Innovations in Engineering and Science, NCORIES-2K18	2018
14	Predicting Web Application Vulnerability using Machine Learning and Hybrid Analysis	National Conference on Recent Innovations in Engineering and Science, NCORIES-2K18	2018
15	An Efficient Secure E-Health System in Cloud Based IoT Network Using Two Way Authentication	CDAMIES-2018, Department of Production Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu	18 th -20 th January, 2018
16	A Detailed Study on Security Services in Cloud Environment	International Conference on Recent Trends and challenges in Computational Models, IEEE Xplore Digital Library, University College of Engineering, Tindivanam.	Feb 2017
17	An Efficient Cloud Security to Telemedicine Services for Health Care Organizations	International Conference on Current Trends in Biotechnology (ICCB-2016), VIT University, Vellore.	08 th -10 th December 2016

Events Organized:

Sl.No.	Event	Title	Date
1.	FDP	“Mobile Computing”, Department of CSE, University College of Engineering, Pattukottai	28.11.2018 to 11.12.2018

2.	National Conference	Recent innovations in Engineering and Science (NCORIES2K18)” University College of Engineering, Pattukottai	06.04.2018
3.	FDP	“Distributed Systems”, Department of CSE, University College of Engineering, Pattukottai	30.11.2015 to 06.12.2015
4.	FDP	“HIGH SPEED NETWORKS”, Department of CSE, University College of Engineering, Pattukottai	09.12.2013 to 15.12.2013

Events Attended:

Sl.No.	Event	Title	Date
1	FDP	“Data Mining” organized by NPTEL-AICTE	Feb – Apr, 2021
2	FDP	“Cutting Edge Trends in Deep Learning Approaches” in Kongu Engg College, Erode	07.12.2020 to 22.12.2020
3	STP	Applied Statistics for Bio informatics and Computational Biology Solutions using R and Bioconductor”, Bannari Amman Institute of Technology, Sathyamangalam	04.09.2017 to 22.09.2017
4	FDP	Soft Skills Technologies and Research, Department of ECE, Sri Ramakrishna Engineering College, Coimbatore	08.06.2015 to 21.06.2015
5	Seminar	Recent Trends in Mathematics”, Department of Mathematics, University College of Engineering, Pattukottai	27.03.2015
6	FDP	“High Speed and Mobile Networks”, Department of ECE, BIT Campus, Tiruchirappalli	05.08.2013 to 11.08.2013
7	FDP	“Digital Image Processing”, Department of CSE, BIT Campus, Tiruchirappalli	23.07.2013 to 31.07.2013
8	FDP	“Data Ware housing and Datamining”, Department of CSE, University College of Engineering, Pattukottai	24.06.2013 to 30.06.2013
9	STP	“Cloud Computing Technologies in RCC”, Anna University, Chennai	01.04.2013 to 13.04.2013
10	FDP	Technical Skills and Smart Room Tools, Centre for Faculty Development, Anna University, Chennai	07.01.2013
11	Workshop	“NS2 Simulator”, Department of IT, Kongu Engineering College, Perundurai	17.09.2011 to 18.09.2011
12	FDP	“Programme on Algorithms and Complex Theory”. Dept. of Computer Application, PREC Thanjavur	31.05.2011 to 04.06.2011
13	STP	“JAVA in CPDE”, Anna University, Chennai	25.09.2000 to 14.10.2000
14	International Conference	International Conference on Evolutionary Computing for Computer, Communication, Control and Power (ECCAP 2000)” in Crescent Engineering College CLRI, Chennai,	04.01.2000 to 07.01.2000

Guest Lectures Delivered

Sl.No.	Title	Organization	Date
1	Emerging Technologies through Cloud Environment	Arasu Engineering College, Kumbakonam	14.09.2021
2	AICTE Training and Learning (ATAL) Academy Sponsored online Faculty Development Programme on “Research Management in Cloud”	EGS Pillay Engineering College, Nagapattinam	18.08.2021
3	“AICTE STTP Series – I on Cognitive Radio Wireless Sensor Networks: Applications, Challenges and Research Trends”	Vivekanandha College of Engineering for Women, Tiruchengode	21.07.2020
4	Operating Systems	Kings College of Engineering, Thanjavur	12.03.2018
5	Design and Analysis of Algorithm – “Back Tracking	Anjalai Ammal Mahalingam Engineering College, Koyilvenni	18.11.2017
6	“Recent Trends in Computer Science and Technology”	Kings College of Engineering, Thanjavur	04.08.2017
7	NS3 Simulator	University College of Engineering, Panruti	03.10.2016
8	Cloud Computing and its Issues	University College of Engineering, Thirukkuvalai	11.06.2016
9	Programming and Data Structures-II	Kings College of Engineering, Thanjavur	29.08.2015