




SRM Valliammai Engineering College

(An Autonomous Institution)

SRM Nagar, Kattankulathur-603203, Chengalpattu District, Tamil Nadu

TEL : 044 - 27454784 / 726, FAX : 044 - 27451504

Personal Details

Name :	Dr. S. RAVIKUMAR	
Designation :	Assistant Professor (Sel.G)	
Educational Qualification :	B.E, M.E, Ph.D	
Experience:	21.9 years	
Area of Specialization :	Cloud Computing, Software Safety, IoT, Artificial Intelligence, Big Data Analytics,	
Date of Joining:	16.06.2001	
Email ID :	ravikumars.it@valliammai.co.in,dr.sravikumarit@gmail.com	
Contact Numbers :	9445778728	

Academic Identity

Anna University Ph.D Supervisor Ref. No:	3840022
Google Scholar :	https://scholar.google.co.in/citations?user=ip36vEwAAAAJ&hl=en
Research Gate:	https://www.researchgate.net/profile/Ravikumar-s
Scopus Author ID :	https://www.scopus.com/authid/detail.uri?authorId=57224990516
Orchid ID:	https://orcid.org/0000-0002-1350-1889
Vidwan-ID:	https://vidwan.inflibnet.ac.in/profile/213142

Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	SSLC	-	Kendriya Vidhyalaya No2-Kalpakkam	1991
2	Diploma	ECE	ATAP Polytechnic, Thirukkalukundram /DOTE	1994
3	B.E.	EEE	Adhiparasakthi Engineering College / Madras University	1997
4	M.E.	CSE	Arulmigu Kalasalingam College of Engineering / Madurai Kamaraj University	2000
5	Ph.D.	CSE	Anna University	2018

Professional Society Memberships

1. Indian Society of Technical Education (ISTE), Membership No: LM 36397, Life member.
2. Computer Society of India Membership No: I1502264, Life member.
3. Institution of Electrical and Electronics Engineers (IEEE) Membership No: 93133640, Yearly member.
4. Association for Computing Machinery (ACM) Membership No: 1010616, Yearly member.
5. SAE, Membership No: 6143159786, Yearly member.

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
SRM Valliammai Engineering College	Assistant Professor (Sel.G)	01.02.2011	Till date	11	-	-
Valliammai Engineering College	Assistant Professor	20.09.2004	31.01.2011	6	4	-
Valliammai Engineering College	Lecturer	16.06.2001	19.09.2004	3	3	4
Bharath Institute of Science and Technology	Lecturer	April 2000	June 2001	1	2	15
Total				21	9	19

Patent Filed & Grant(Indian / International):

Title of the Invention

1. UNMANNED INTELLIGENT PATROL ELECTRIC VEHICLE WITH IOT INTEGRATED PLATFORM – **GERMAN PATENT** – Filed on 17.03.2022 – Application No: 202022101428.

2. IOT BASED VIRTUAL STUDENTS MONITORING SYSTEM BY USING TF PLUS MINI LIDAR SENSOR”-Filed On 13.01.2021 and Granted on 27.03.2021 In **AUSTRALIAN INNOVATION PATENT** , Application No:2021100210 .

3. SMART AGRICULTURAL ASSISTANT FOR ANIMAL MONITORING-FILED –**INDIAN PATENT** on07/01/2019 OFFICE JOURNAL NO 18/2019 published on DATED 03/05/2019. Application No:201941000621 A

4.. WRISTWATCH BASED HEALTH MONITORING SYSTEM- FILED **INDIAN PATENT** on 22/03/20 PUBLISHED ON 05/06/2020.Application No: 202041012393

Ph.D DETAILS

Title of the Thesis: SAFETY ENHANCEMENT FOR DISTRIBUTED AUTOMOTIVE SOFTWARE SYSTEM

University: Anna University, Chennai-Dec 2018

INTERNATIONAL JOURNAL REVIEWER (SCI/SCOPUS):

1. Reviewer in International Journal of Medical Imaging and Health Informatics, American Scientific Publishers from 2021.
2. Reviewer in International Journal of Ambient Intelligence and Humanized Computing, Springer-Germany form the year 2020.
3. Reviewer in International Journal of Microprocessors and Microsystems: Embedded Hardware Design (MICPRO), Elsevier from the year 2020.
4. Reviewer in the international journal of Big Data(Marry Ann Libert) from the year 2020.
5. Reviewer in the International journal of Soft Computing from the year 2021.
6. Reviewer in the International Journal of Internet Technology from the year 2021.

Publication Details

International Journals (SCI/SCIE/SCOPUS/UGC-CARE List Indexed)

1. S. Jeyalakshmi, S. Sekar, **S. Ravikumar**, D. Kavitha, "Random Forest-Based Oppositional Henry Gas Solubility Optimization Model for Service Attack Improvement in WSN", Journal of The Institution of Engineers (India): Series B, Springer, JAN 2022, **SCOPUS/UGC. (Impact Factor:0.88) Q4 Journal.**
2. **S. Ravikumar**, D. Kavitha, "CNN-OHGS:CNN-oppositional-based Henry gas solubility optimization model for autonomous vehicle control system", International Journal of Field Robotics, <https://doi.org/10.1002/rob.22020>, Volume 38, Issue 7, PP 967-979, May **2021**. ISSN: 1556-4959, John Wiley & Sons Ltd. **(Impact Factor: 3.767) SCIE/SCOPUS Q1 Journal.**
3. **S. Ravikumar**, D. Kavitha, "A New Adaptive Hybrid Mutation Black Widow Clustering Based Data Partitioning for Big Data Analysis", International Journal of Wireless Personal Communications, DOI: 10.1007/s11277-021-08516-x, April **2021**. ISSN: 0929-6212, April 2021, Volume 120, Issue 2 Pp 1-27, SPRINGER **(Impact Factor: 1.671) SCI / SCOPUS / UGC , Q3 Journal.**
4. D. Kavitha **S. Ravikumar** "IOT and context-aware learning-based optimal neural network model for real-time health monitoring" in Transactions on Emerging Telecommunications Technologies, Vol:32, Issue:1, pp:e4132, Volume 32, Issue 1, PP 1-19, **2021** , Online ISSN:2161-3915, John Wiley & Sons Ltd. **(Impact Factor: 2.638) SCIE/SCOPUS Indexed Journal**, <https://doi.org/10.1002/ett.4132> . **Q2 Journal.**
5. **S. Ravikumar**, Kavitha, D. IOT based autonomous car driver scheme based on ANFIS and black widow optimization. J Ambient Intell Human Comput (2021). <https://doi.org/10.1007/s12652-020-02725-1>. Volume 12, Issue 1, PP 1-14 **2021** Springer Nature Switzerland AG. **(Impact Factor: 7.104) SCI/SCOPUS/UGC Indexed Journal**, <https://doi.org/10.1007/s12652-020-02725-1>. **Q1 Journal**
6. **S. Ravikumar**, D Kavitha , **(2020)**, IoT based home monitoring system with secure data storage by Keccak–Chaotic sequence in cloud server, Journal of Ambient Intelligence and Humanized Computing, Springer Berlin Heidelberg, DOI: <https://doi.org/10.1007/s12652-020-02424-x>. July 2021, Volume 12, Issue 7, PP 7417-7426, **(Impact Factor: 7.104) SCI / SCOPUS / UGC Indexed Journal. Q1 Journal**
7. D Kavitha, **S Ravikumar. (2020)**, Designing an IoT based autonomous vehicle meant for detecting speed bumps and lanes on roads, Journal of Ambient Intelligence and Humanized Computing, Springer Berlin Heidelberg, DOI: <https://doi.org/10.1007/s12652-020-02419-8>. July 2021, Volume 12, Issue 7, PP 7417-7426, **(Impact Factor: 7.104) SCI / SCOPUS / UGC Indexed Journal. Q1 Journal**

National Journals

1. D. Kavitha **S. Ravikumar**, "Software Security Requirement Engineering for Risk and Compliance Management", in International Journal of Innovative Technology and Exploring Engineering 10(5):11-17, DOI: 10.35940/ijitee.E8628.0210421, 2021.
2. S.Ravikumar, V Arul Murugan,, M Boopalan,, K Hari Prasanth,, B Karthikeyan, " IoT Based Patient Health Monitoring System" A Journal Of Composition Theory, ISSN : 0731-6755, Volume XIV, Issue IV, 6 April 2021.
3. S.Ravikumar, Aparna.R, Jayalakshmi.J, Madhubala.S, Maimoon Farhana.I "Vote From Home:An Immutable, Legitimate Block Chain Based E- Voting System", International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE), Vol. 7, issue 2, Feb 2019.
4. S.Ravikumar and et.al "Secured Shopping Using Smart Trolley For Super Market (IOT)", IJSART - Volume 4 Issue 3 – MARCH 2018 , ISSN [ONLINE]: 2395-1052.

5. S.Ravikumar, N.Harshini, D.Iswarya, R.Madhubala, "A GESTURE BASED DIGITAL ART WITH COLOUR COHERENCE VECTOR ALGORITHM", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395 -0056, Volume: 04 Issue: 03 | Mar -2017.
6. S.Ravikumar and et.al ," AUTOMATED SECURITY SURVEILLANCE SYSTEM IN REAL TIME WORLD" , International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 03 | Mar -2017.
7. **S.Ravikumar**, S.Chandrasekaran "Safety Assessment of Distributed Automotive Software System Model with Design for Traceability",Asian Journal of Information Technology, Year: 2016 | Volume: 15 | Issue: 11 | Page No.: 1799-1815 DOI: 10.36478/ajit.2016.1799.1815.
8. **S Ravikumar**, S Chandrasekaran "A Survey on Different Software Safety Hazard Analysis and Techniques in Safety Critical Systems" Middle-East Journal of Scientific Research 24 (Special Issue), 90-97,2016.
9. D.Kavitha, **S.Ravikumar** " Enhanced Vulnerability Analysis For Clickjacking Web Attack And Providing Security Using Whitelisting URL Analyzer " International Journal Of Engineering And Computer Science ISSN:2319-7242, Volume 4 Issue 6, pp. 12652-12657 ,June 2015.
10. D.Kavitha, **S.Ravikumar** "Click jacking Vulnerability Analysis and Providing Security against WEB Attacks Using White listing URL analyzer" International Journal of Computer Techniques -- ISSN: 2394-2231 Volume 2 Issue 3, pp 61-67,May - June 2015.
11. D.Kavitha, **S.Ravikumar** "A Survey on Different Software Security Attacks and Risk Analysis Based on Security Threats" International Journal of Innovative Research in Computer and Communication Engineering, ISSN (Online): 2320-9801 ISSN (Print): 2320-9798 Vol. 3, Issue 4, pp 3452-3458, April 2015.

International Conferences:

1. D.Kavitha, S.RaviKumar and S.Nandhini, presented a paper,"Eye Blinking Cursor Movement Using LDR For Hand Disabled Persons" which has won the best paper award in International Conference On Smart Automation In Computer, Electrical, Electronics And Communication Engineering held on 6 – 7 September, 2019 at SRMVEC.
2. S.Ravikumar and et.al," CAR Based Safety Model in Automotive Software Engineering" 10th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SPEADS '11), Cambridge University, UK, ISBN: 978-960-474-277-6,PP 206-211.Year 2011(Accepted in ACM Digital Library)

Skill Development Programme

Shortlisted based on National level Pre-Assessment Test by ISTE and BNY Melon Multinational Company and completed **Two Months hands-on online Training Program on Internet of Things(IoT) from 20.11.21 to 22.12.21**

ATAL (AICTE Training And Learning) Academy

1. Participated & completed successfully - Online FDP on "AI & ML-Computer Science & Biology " from 2020-10-19 to 2020-10-23 at SRM INSTITUTE OF SCIENCE AND TECHNOLOGY-Delhi Campus.
2. Participated & Completed successfully - Online FDP on "Internet of Things (IoT)" from 2020-10-29 to 2020-11-2 at Institute of Engineering & Technology, Lucknow.

AICTE - NITTT Module Completed:

1. Module 1 - Orientation Towards Technical Education and Curriculum Aspects
2. Module 2 - Professional Ethics & Sustainable Development
3. Module 3 - Communication Skills, Modes & Knowledge Dissemination
4. Module 4 - Instructional Planning and Delivery

Recognition:

1. Board of Studies Internal member (BoS) for the Department of Artificial Intelligence and Data Science.
2. IT Syllabus incharge for framing Curricula and Syllabi for Regulation 2019
3. CSI Kancheepuram Chapter , Management Committee member (2018-2020)
4. CSI Kancheepuram Chapter , Nomination Committee (2020-2021)
5. CSI -VEC Student Branch Counsellor from 2007 to 2012.

NPTEL-ONLINE CERTIFICATION

Successfully completed NPTEL Online courses conducted by IIT and Awarded 'ELITE'

- Cloud Computing – **Eight Week Course**(Aug-Oct 2017)
- Wireless Adhoc and Sensor Networks – **Eight Week Course**(Jan Mar 2017)
- Outcome based pedagogic principles for effective teaching – Four Week Course(Jan-Feb 2017)
- Stress Management – Two Week course(Aug-Sep 2018)

NPTEL-AICTE Online Course

- Body Language : Key to professional success – Four week course

Participation in Industry towards Industrial visit and Training Program

1. Participated in Workshop on IBM Technologies on 18.09.2005 at SRMIST as a part of IBM ACADEMIC INITIATIVE.
2. Industrial visit programme in BSNL, Rajiv Gandhi Memorial Telecom Training Centre, Meenambakkam, Chennai on 07.01.2016.
3. Industrial visit in Jasmin Infotech Pvt. Ltd. on 22.06.2017
4. Industrial visit to ECS Inc. Guindy on 22.11.17.
5. Industrial visit to Vi Microsystems Pvt Ltd. - "Internet of Things" on 12.05.2018.
6. Accenture Learning Symposium workshops on "Deep Learning" and "DevOps" conducted on 13th and 14th March 2018.
7. Industrial Visit to BSNL Chennai Telephones on 9th August 2019.

CASH AWARD:

1. Got Cash Award for Journal publication during the year 2015-2016,2016-2017 and 2018-2019.
2. 100% result in System Software, Microprocessor and Microcontroller, Professional Ethics, Computer Networks and Computer Peripherals.

Attended Workshop/STTP/Conference

1. Attended Short Term Course on e-Security organized by Centre for Professional Development Education in association with centre for Academic Partnership , Anna University, Chennai from 22nd Nov 2001 to 24th Nov 2001.

2. Participated in the National Seminar on “RESEARCH CHALLENGES IN MOBILE ADHOC NETWORKS(RCIMAN’09) conducted at the VELTECH Technical University from 17th and 18th April 2009.
3. Participated in the 98th Indian Science Congress -Quality Education and Excellence in Scientific Research in Indian Universities held at SRM University from 3rd to 7th Jan 2011.
4. Participated in the Research Scholar Event organized as a part of the ACM India Annual Event 2013 on Jan 23, 2013 at IIT Madras.
5. Participated in One Day Workshop on Effective Research Grant Writing on 16th February 2013 by IET CHENNAI LOCAL NETWORK.
6. Participated in one day National Workshop on Fundamentals of Virtualization and Storage in cloud organized by School of CSE , VIT Chennai on 24th Feb 2014.
7. Participated in Three Days FTP on CS6712-Grid and Cloud Computing Lab organized by Dept. of CSE , Jeppiaar SRR Engineering college on 5th, 6th and 7th of May 2016.
8. Participated in one day Workshop on Digital Transformation conducted by ECS Inc in 22nd Nov 2017.
9. Participated in One day Technical Seminar on Embedded Software Safety and Security on OCT 25, 2017 in LDRA Technology PVT LTD , Bangalore.
10. Participated in Two days FDP on “Teaching and Learning Enhancement through Outcome Based Education” Conducted by ECE Dept., VEC on 7th and 8th Dec 2017.
11. Participated in National workshop on Fundamentals of Virtualization on 24.01.2019 and 25.01.2019 organized by IT Dept. SRMIST.
12. Participated in One day seminar on “Role of IQAC in improving Academic and Administrative Audit” organized by IQAC of R.M.K Engineering College in Academic collaboration with NAAC on 29th April, 2019.

No of Workshop Organized : 10

No of Seminar/Guest Lecture/workshop organized:35