



Dr. P. SIVAKUMAR

Professor & HOD
Manakula Vinayagar Institute of Technology,
Madagadipet,
Puducherry, Pin code – 605 107.
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Professional Objective:

To pursue an Executive, Challenging & Accountable career in the Teaching profession to impart, implement and invest the enriched experienced knowledge in the areas with latest tools and technologies.

Career profile:

Young, Dynamic, hardworking Teaching professional having 19 years of Teaching experience and completed Ph.D in the field of Mobile Ad hoc Networks. Published more than 25 publications in international journals and conferences and Life member of ISTE and Institution nominee member of CSI.

Educational qualification: M.Sc., M.E., Ph.D., MISTE, MCSI.

- Ph.D : Completed at Anna University [Part Time –External] in the year 2014.
Specialization: Mobile Adhoc Networks.
- M.E. : Completed at KSR College of Technology, Anna University
in the year 2005 with the First Class (73.13 %)
Specialization: Computer Science & Engineering
- M.SC. : Completed at Nehru Memorial College, Bharathidasan University
in the year 1997 with the First Class (68.07%)
Specialization: Computer Science
- PGDCA: Completed at Nehru Memorial College, Bharathidasan University
in the year 1995 with the First Class (73.50%)
Specialization: Computer Science
- B.Sc : Completed at SIVET College, Madras University in the year 1994
with the Second Class (55%)
Specialization: Physics

Work experience: 19 Years

S.No	Employer	Designation	Period of Service	Nature of Work
1	Manakula Vinayagar Institute of Technology	Professor & HOD	From 1.1.2015 to Till Now	Teaching/ Students Projects/ Administration
2	Manakula Vinayagar Institute of Technology	Associate Professor & HOD	From 14.7.2012 to 31.12.2014	
3	Manakula Vinayagar Institute of Technology	Assistant Professor & HOD	From 19.11.2009 to 13.7.2012	
4	Mailam Engineering College	Assistant Professor & HOD	From 1.08.2006 to 18.11.2009	Teaching/ Students Projects/ Administration
5	Mailam Engineering College	Sr. Lecturer	From 4.10.2004 to 31.07.2006	
6	Mailam Engineering College	Lecturer	From 26.08.1998 to 03.10.2004	

Teaching Activities: (Subjects Taught)

- (i) **Under Graduate : 19 Years**
Data Structure and Algorithms
Operating Systems,
Computer Networks
Web Technology
Cryptography & Network Security
Object Oriented Programming,
Design and Analysis of Algorithms
Data Base Management System
Mobile Communication Networks
Distributed Computing
- (ii) **Post Graduate: 07 years**
Advanced Data Structure and Algorithms
Mobile computing
Network Security
High Performance Networks
- (iii) **Laboratories handled:**
Project Work –Phase I & II
Comprehensive Viva Voce
Computer Networks Lab
Data Structures Lab

Major tasks handled: (MVIT)

- Member of UG/PG Board of Studies in Information Technology (2014-2017), Pondicherry University.
- Got merit certificate for the very good results (100% results) provided in Pondicherry University and Anna University examination.
- Observer in Pondicherry University for University Theory Examination
- University Representative (AUR) for Theory Exams in Anna University.
- Examiner in IT –Theory Exam Board at Pondicherry University.
- Examiner and Chief Examiner in CSE & IT Exam Board at Anna University and Vinayaga Mission Deemed University central valuation.
- NBA Coordinator for Accreditation work in the IT Department, Manakula Vinayagar Institute of Technology, Puducherry
- Book Authored for Web Technology by A.R Publishers.
- Question paper Setter in MGR Deemed University, Chennai
- President for IT- Department Student Association (SAIT) to encourage the students to participate the co-curricular activities
- Signing MOU with TCIL-IT, Cherries Technologies, Puducherry to Facilitating strong industry institute interaction in the year 2017-2018.
- Develop the E- program - online value added course in the department.
- Convener for National Level Technical Symposium MITILENCE [2010-2018] (9 years) at Manakula Vinayagar Institute of Technology, Puducherry.
- Convener for State Level PC Assembling Contest 2018 held on 20.1.2018 at Manakula Vinayagar Institute of Technology, Puducherry.
- Convener for Cloud Computing Project Contest [2016-2018] at Manakula Vinayagar Institute of Technology, Puducherry.
- Organizing Committee member for IEEE - ICSCAN 2018 International Conference, July 2018, at Manakula Vinayagar Institute of Technology, Puducherry.

- Organizing Committee member for National Conference on SCAN [2013-2017] at Manakula Vinayagar Institute of Technology, Puducherry.
- Organizing Committee member for the National Science Day - SCIMIT (2011-2018) at Manakula Vinayagar Institute of Technology, Puducherry.
- Co-convenor of International Conference on Advances in Emerging Technology (ICAET-2017) held on 1.4.2017 at Manakula Vinayagar Institute of Technology, Puducherry.
- Co-Coordinator for AICTE Sponsored Two days National Seminar on “Cyber Law and Cyber Security” on 25.10.2013 to 26.10.2013 at Manakula Vinayagar Institute of Technology, Puducherry.
- Coordinator for CSI Student Chapter Sponsored Two Days Workshop on “White Hat Hacking”, Dept. of the IT,2013, Manakula Vinayagar Institute of Technology, Puducherry.
- Co-Coordinator for AICTE Sponsored Staff Development Program on “Middleware Technologies and its Emerging Trends” on 30.05.2011 to 11.06.2011 at Manakula Vinayagar Institute of Technology, Puducherry.
- Co-Coordinator for AICTE Sponsored Two days National Seminar on “Swarm Intelligence” on 24.06.2011 to 25.06.2011 at Manakula Vinayagar Institute of Technology, Puducherry.
- Discipline coordinator for College Annual and Sports Day –ELAN-2011
- Involved in setting up Computer lab in IT department, MVIT, 2009.

Program Organized - Roles and responsibility (Mailam Engg. College)

- Dept.in-charge at Mailam Engineering College and involved in setting up Computer laboratories.
- Convener for the National Level Technical Symposium CYQUEST-2K1 on February 2001, Mailam Engineering College, Mailam, TamilNadu-604304.
- Convener for the National Science Day and Technical Symposium GENERIC-2007 on February 2007, Mailam Engineering College, Mailam.

- Convener for the National Level Technical Symposium GENERIC-2008 on August- 2008, Mailam Engineering College, Mailam.
- President for IT Department Student Association (2005-2009).
- NBA Coordinator for Accreditation work in the IT Department, Mailam Engineering College, Mailam to Involved in preparing Accreditation details.

Paper Publications / Presentation:

	Published	Accepted	Communicated	Total
International Journal	13	-	-	13
International Conference	6	01	-	07
National Conference	18	-	-	18

(For details of publications and training (FDP/STTP/Workshops) programmes Attended please refer **Annexure -I**)

Reviewer for the journals:

- Reviewer of Time Journal of Engineering and Physical Sciences Journal ISSN: 2360-7335
- Reviewer of International Journal of Emerging Technology in Computer Science and Electronics, ISSN : 0976-1353.

Research activities:

- Proposal Submitted to SERB, Mathematical Research Impact Centric Support (MATRICS) titled on Effective Queue Management System For Hospital Application And Its Performance Analysis (Reference No : 332018001114) on 10.4.2018.
- Proposal Submitted to CSIR 2 days Seminar on Current issues on IOT in Health Care on November 2017.

Consultancy and Sponsored Research activities: Nil

Research guidance:

Examiner for Ph.D thesis evaluation, Anna University Chennai and Karpagamgam University, Coimbatore

Project Guidance:

More than 8 projects in PG level and more than 20 projects in UG level

Guest Lectures delivered:

- Mailam Engineering College, Mailam
- Idhaya College of Engineering for Women, China Salem

Professional Membership:

- Life member in **ISTE** : LM28945
- Member of **CSI** : N1063097
- Fellow of **ISRD** : F3140901091

(Dr.P.SIVAKUMAR)

Annexure -I

Dr. P. SIVAKUMAR – PUBLICATIONS & FDP/STTP/WORKSHOPS ATTENDED

Research Publication - International Journals

1. **Sivakumar, P** ‘Detection and Prevention of Sybil Nodes using Threshold and Security based Techniques in MANETS’, **Australian Journal of Basic and Applied Sciences**, October issue 2015. ISSN:1991-8178. (Annexure- II)
2. **Sivakumar, P** ‘Detecting Collaborative Blackhole Attack in MANET using Sequence Number Mitigation Mechanism’, **Australian Journal of Basic and Applied Sciences**, August issue 2015. ISSN:1991-8178. (Annexure- II)
3. **Sivakumar, P** “A Survey of Ant Colony Optimization” *International Journal of Advanced Research in Computer Science and Software Engineering*, Volume 6, Issue 3, March 2016. ISSN: 2277 128X.
4. **Sivakumar, P** ‘An Analysis of Defense Challenges and attacks in Mobile Ad Hoc Networks’, **International Journal of Emerging Technology in Computer Science & Electronics(IJETCSE)** ISSN:0976-1353 Vol.12 Issue.2,January 2015.
5. **Sivakumar, P** ‘Trust Aware Secure Intrusion Detection in MANET’, **International Journal of Advanced and Innovative Research**, Vol. 3, no. 2, February 2014.
6. **Sivakumar, P** ‘An efficient neighbor discovery through hello messaging scheme in MANET routing protocol’, *International Journal of Emerging Technology and Advanced Engineering*, Vol. 4, no. 1, January 2014.
7. **Sivakumar, P** ‘Reducing Routing Overhead for Multimedia Traffic in Manet using Rebroadcast Probability’, **International Journal of Advanced Research in Computer Engineering & Technology**, Vol. 2, no. 1, January 2013, pp 64-70.
8. **Sivakumar, P** & Duraiswamy, K 2013, ‘Bandwidth and Delay Aware Routing protocol for Real Time Traffic in MANET’, **International Review on Computers and Software**,vol.8,no.2,pp. 551-559 (SNIP: 0.486, SJR: 0.028).
9. **Sivakumar, P** & Duraiswamy, K 2013, ‘Reliable Real-time Data Transmission in MANET using Connection Possibility’, **Journal of Theoretical and Applied Information Technology**,vol.49,no.1,pp. 16-22 (SNIP: 0.113, SJR: 0.026).

10. **Sivakumar, P** & Duraiswamy, K 2012, 'QoS Routing Discovery Protocol for Real Time Traffic in MANET', **CiiT International Journal of Wireless Communication**, vol. 4, no. 4, pp. 171-176 (Impact Factor: 0.6).
11. **Sivakumar, P** & Duraiswamy, K 2011 'A Distributed Load Balanced Routing Protocol for Real-Time Traffic in Mobile Ad hoc Networks', *European Journal of Scientific Research*, vol. 53, no. 4, pp. 626-636 (SNIP: 0.493, SJR: 0.033).
12. **Sivakumar, P** "A Remote computer control System using Android mobile Device", *International journal of Emerging Technology in Computer Science and Electronics*, Volume 24 Issue 07, April 2017. ISSN :0976-1353.
13. **Sivakumar, P** "Proficient Multi Keyword Search in Cloud for Multi user Environment", *International journal of Emerging Technology in Computer Science and Electronics*, Volume 24 Issue 07, April 2017. ISSN :0976-1353.

International Conferences

1. **Sivakumar, P** 'An Analysis of Defense Challenges and attacks in Mobile Ad Hoc Networks' Proceedings of the International Research Congress in Engineering & Technology-2015, Muthayammal College of Arts and Science, Tamil Nadu. 25.1.2015.
2. **Sivakumar, P** 'Emergency Mobile Healthcare System using Opportunistic Computing Framework' Proceedings of the Third international conference on Futuristic Trends in Computer Science Engineering & Information Technology, Thiruvalluvar College of Engineering and Technology, Vandavasi, Tamilnadu, March-2014.
3. **Sivakumar, P** & Duraiswamy , K 2012, 'A Survey of QoS Issues and On demand Routing Protocols Performance Analysis in Mobile Ad hoc Networks', Proceedings of the International Conference on Intelligence Computing, May 3-4, Anand Institute of Higher Technology, Chennai, India.
4. **Sivakumar, P** & Duraiswamy , K 2010, 'A QoS routing protocol for mobile ad hoc networks based on the load distribution', Proceedings of the **IEEE International Conference on Computational Intelligence and Computing Research**, December 28-29, Tamilnadu college of Engineering and Technology, Coimbatore, India.
5. **Sivakumar, P** 'Heterogeneous Data Source Access in Web Application Using Intelligent Mobile Agents' Proceedings of the international conference on Computational Intelligence and Multimedia Application-2007 at MEPCO Shlenk Engineering College, Sivakasi, Tamilnadu, December 2007.

6. **Sivakumar, P** 'Analyzing and Deploying the Data Streaming in BigData Feature Selection Process using ACO' Proceedings of the International Conference on Science and Innovative Engineering, Jawahar Engineering College 3rd April , 2016.(ISBN 978-81-904760-8-9.)

National Conference

1. A paper titled 'Mitigating Server Side Congestion in the internet through Pseudo Serving' was presented in the National level Conference on TECH FETE-2004 at K.S. Rangasamy College of Technology, Tiruchengode.
2. A paper titled 'Mobile Agent' was presented in the National Conference NCRTCA'05, Oct -2005 at S.N.S college & Technology, Coimbatore.
3. A paper titled 'Assessment of Team Performance for Rapid Growth using Intelligent Software Agent' was presented in the National Conference ACENET - 2007 at PSNA College of Engineering and Technology, Dindigul.
4. A paper titled 'Congestion Control in Distributed Media Streaming' was presented in the National Conference on Network Engineering at Kamaraj College of Engineering and Technology, VirduNagar, March 2008.
5. A paper titled 'Asymptotic Behavior of the RED Gateway under Heterogeneous TCP flows' was presented in the National Conference on Network Engineering, Kamaraj College of Engineering and Technology, VirduNagar.
6. A paper titled 'RSA-Grid Computing Based Security and Reliability analysis for high Bandwidth to Power System' was presented in the 4th National Conference NCSSC'08 at College of Engineering Guindy Campus, Anna University, Chennai.
7. A paper titled 'Server side Congestion control in the Internet' was presented in the National Conference I-CUBE'08 at Rajiv Gandhi College of Engineering and Technology, Puducherry.
8. A paper titled 'A privacy-preserving location monitoring system for wireless sensor networks' was presented in the National Conference Information Security at Mailam Engineering College, Mailam.
9. A paper titled 'Network code based privacy preservation against traffic analysis in multi hop wireless networks' was presented in the National Conference on AGNICON-2012 at AGNI College of Technology, Chennai.

10. A paper titled 'A survey of on demand Routing Protocol using MANET' was presented in the National Conference on FICN-2012 at Sri Venkateswara Institute of Science and technology, Thiruvallur.
11. A paper Titled "A Novel Approach to Load Balancing in SIP Server Cluster" in National conference on Recent Trends in Information Technology (NCRTIT-2013) at RMK College of Engineering and Technology on 25.02.2013.
12. A Paper Titled "Reducing Routing Overhead for Multimedia Traffic in Manet Using Rebroadcast Probability" was presented in the National conference on Recent Trends in Information Technology at RMK College of Engineering and Technology on 26.02.2013.
13. A Paper Titled "Reducing the data dissemination in MANET using ZRP with markov mobility model" was presented in the National conference on Emerging trends in Computer science & Engineering (NCETCSE'13) at Sri Ganesh College Engineering and Technology on 5.10.2013.
14. A Paper Titled "Confidential Deduplication of Convergent key to reduce memory usage in cloud" was presented in the National conference on NC3E2M 2015 at Shri Sathagiri Institute of Technology on 20.03.2015.
15. A Paper Titled "An enhanced Bait Approach to defend Against Collaborative attacks in MANET" was presented in the National conference on Computing Techniques 2015 at University College of Engineering, Villupuram, Tamil nadu, on 31 March 2015.
16. A Paper Titled "Employee Monitoring and analyzing system using Android" , National Level Conference on "Recent Trends in Communication, control , signal and Processing Applications" on 23.03.2016 at Mahendra College of Engineering, Salem, Tamilnadu. **(Best Paper Award)**
17. A Paper Titled "Cloud based architecture for E-Hospital management patients accessible mechanism", National Level Conference on "Recent Trends in Communication, control , signal and Processing Applications" on 23.03.2016 at Mahendra College of Engineering, Salem, Tamilnadu.
18. A Paper Titled "A secure collision data sharing scheme in cloud", National Level Conference on "Recent Trends in Communication, control , signal and Processing Applications" on 23.03.2016 at Mahendra College of Engineering, Salem, Tamilnadu.

International Certification:

1. Database Design and Programming with SQL –Oracle Academy on 20th March 2015.
2. vITA- Data Centre Virtualization Fundamentals on 1st June 2016.
3. EMC Academic Associate – Cloud Infrastructure and Services on 12th November 2016.

Dr. P.Sivakumar : Participation in National / International level seminar / Work Shop /summer or Winter School

S.No.	Topic	Name of the Event	Organization	Month & Year
1.	Data Structure and Algorithms	National Work Shop	Sree Sastha Institute of Engineering and Technology& IARCS	July 2004
2.	Professional Ethics	National Seminar	Mailam Engineering College	July 2004
3.	Innovative Teaching Techniques in Engineering College	National Seminar	Mailam Engineering College	Aug 2004
4.	FDP on Software Testing	Faculty Development Programme	Kongu Engineering College. Perundurai.	Nov 2004
5.	Role of Regional Language in Information Technology	National Work Shop	College Engineering Anna University	March 2005
6.	Research Methodology for Engineering Teachers	National work Shop	Sri Ramakrishna Engineering College, Coimbatore.	September 2005
7.	Mobile Computing	National work Shop	MNM Jain Engg. College,Chennai	Oct 2005
8.	Mathematical modeling and Computer simulation	National seminar, Sponsored by CSIR	Kongu Engineering College. Perundurai	August 2006
9.	Advance in Network and Communication	National seminar, Sponsored by AICTE	Sri Manakula Vinayagar Engineering College, Puducherry.	October 2006
10.	Analysis of Network Protocols and Design of Network processor.	National Workshop Sponsored by QIP	National Institute of Technology, Trichy.	12-17 February 2007
11.	Ad-hoc Networks	National workshop	MIT Campus, Anna University,Chennai-44.	22&23 rd March 2007

12.	SDP on Computing: Information, Knowledge and Business Intelligence	Staff Development Program Sponsored by AICTE	Sri Manakula Vinayagar Engineering College,Puducherry.	3-13 January 2008
13.	Web Development using Free and Open Software	IBM Faculty Development Program	Sri Venkateswara College of Engineering,Chennai.	6-7 February 2008
14.	Entrepreneurship Development	One Day Workshop	Mailam Engineering College	February 2008
15.	Reverse Engineering	One day work shop	Krishnaswamy college of Engineering and Tech.	23 February 2008
16.	Digital Image Processing in Multimedia	One Day Seminar	Mailam Engineering College	1 August 2008
17	STTP on Emerging Trends in IT and Wireless Networks	Short Term Training Program	SNS College of Technology,Coimbatore-35	February 2009
18	Advances in Networks and Computing: Industry Academic Practices	One week Workshop	Department of CSE, Pondicherry University, Puducherry	22 - 26 February 2010
19	Networking Simulator Tools'	Two days Workshop	Department of ECE, Anna University, Tiruchirappalli	17-18 July 2010
20	Staff Development Program on "Middleware Technologies and its Emerging Trends	AICTE Sponsored Two weeks SDP	Manakula VinayagarInstitute of Technology,Puducherry.	30.05.2011 to 11.06.2011
21	National Seminar on Swarm Intelligence	AICTE Sponsored Two days National Seminar	Manakula VinayagarInstitute of Technology,Puducherry	24-25 June 2011
22	NS2 Simulator	National level Work shop	Angel College of Engineering and Technology.Tirupur.	9-10 September 2011
23	National Programme on Technology Enhanced Learning (NPTEL)	Workshop	Manakula VinayagarInstitute of Technology,Puducherry	21 December 2012

24	Analysis and Simulation of Self Organized Networks using NS2	Two days Workshop	Manakula Vinayagar Institute of Technology,Puducherry	8 &9 th February 2013
25	Current Scenario: Open Source technologies	AICTE Sponsored Two days National Seminar	Manakula Vinayagar Institute of Technology,Puducherry	17-18 April 2013
26	Cyber Security & malware Analysis (Level-1)	Workshop	Manakula Vinayagar Institute of Technology,Puducherry	2-3 August 2013
27	Research and development in Engineering Institutions	ISTE Sponsored One Day Workshop	Manakula Vinayagar Institute of Technology,Puducherry	13 th September 2013
28	Cyber Law and Cyber Security	AICTE Sponsored Two days National Seminar	Manakula Vinayagar Institute of Technology,Puducherry	25-26 October 2013
29	Impact of Biometric Security using Image Processing	AICTE Sponsored Two days National Seminar	Manakula Vinayagar Institute of Technology,Puducherry	12-13 November 2013
30	Research and Development in Engineering Institutions	One Day Workshop	Manakula Vinayagar Institute of Technology,Puducherry	13 th September 2014
31	Research Issues in image processing and data mining	One day seminar	Manakula Vinayagar Institute of Technology,Puducherry	3 rd December 2014
32	Scientific Engineering Facts	Three Days FDP	SEED technologies, IIT Chennai	29 -31 January 2015
33	Data Base Design and Programming with SQL	One week FDP	Oracle Academy & ICTACT,Tamilnadu	16-20 March-2015
34	Advanced Teaching Techniques	Three Days FDP	ICTACT ,Puducherry	25.05.15 To 27.05.15
35	Cloud Computing	One Week Faculty Development Programme	organized by Department of IT,MVIT in association with ICTACT Puducherry	08.06.15 TO 16.06.15
36	Accreditation,Standards and management in Higher Education	RUSA Sponsored One Day Workshop	PKIET, Karaikal	17.10.15

37	LIFE SKILLS	One Week Faculty Development Programme	ICTACT ,Puducherry	02.11.15 TO 6.11.15
38	Web Designing and Scripting	One Week Faculty Development Programme	organized by Department of IT,MVIT in association with ICTACT Puducherry	24.11.15 TO 28.11.15
39	Data Centre Virtualization Fundamentals	Two days FDP	organized by Sona College of Technology, Salem in association with ICTACT &VM ware	30.5.2016 To 1.06.2016
40	Mobile Application Development	Two days FDP	organized by Department of IT,MVIT in association with ICTACT Puducherry	29.06.2016 To 30.6.2016
41	Cloud Infrastructure & Services	5 Days FDP	organized by SMVEC,Puducherry in association with ICTACT Puducherry	8.11.16 To 12.11.16
42	Hadoop Hortonworks	5 Days FDP	organized by MVIT,Puducherry in association with ICTACT Puducherry	7.08.2017 To 11.08.2017
43	Nptel Workshop	1 day	organized by IIT, Madras, Chennai	
44	IOT and Data Analytics	2 Days	organized by MVIT,Puducherry in association with ICTACT Puducherry	9.11.2017 To 10.11.2017
45	FDP on Internet of Things	5 Days	organized by(ABS Semiconductor Pvt. Ltd) MVIT,Puducherry	11.12.2017 to 15.12.2017
46	Nptel Awareness Workshop	1 day	organized by SSN college of Engineering, Chennai	23.12.2017