

Faculty Profile



Dr N M SARAVANA KUMAR, B.E., M.E., Ph.D.,

Professor and Head

Saravanakumaar2008@gmail.com

ACADEMIC PROFILE

Degree	School/ College	Year of Passing	% of Marks	Class Obtained	Board /University
PhD (ICE)	Government College of Technology, Coimbatore	2013	Awarded	Highly Commended	Anna University, Chennai.
M E (CSE)	K.S.R College of Tech, Tiruchengode	2005	77	First Class	Anna University, Chennai.
BE (CSE)	Thangavelu Engineering College, Chennai	1999	63	First Class	Madras University, Chennai
HSC	Diamond Jubilee Higher Secondary School, GobiChettipalayam	1995	77	First Class	State Board
SSLC	Diamond Jubilee Higher Secondary School, GobiChettipalayam	1993	79	First Class	State Board

PROFESSIONAL EXPERIENCE (In the reverse chronological order)				
Teaching Experience:	17 Years 4 Months		Industry Experience:	Nil
Institution & Country	Designation	Start Date	End Date	University / Board affiliated to
Vivekanandha College of Engineering for Women, Tiruchengode, India	Professor & Head	June 2016	Till Date	Affiliated to Anna University, Chennai.
Bannari Amman Institute of Technology, Sathyamangalam	Associate Professor	Feb 2005	May 2016	Affiliated to Anna University, Chennai.
Mahendra Engineering College, Thiruchengodu	Lecturer	July 2002	Jun 2003	Affiliated to Anna University, Chennai.
Government. College of Technology, Coimbatore.	Lecturer	Jun 2001	Apr 2002	Affiliated to Anna University, Chennai.
Sapthagiri College of Engineering, Dharmapuri	Lecturer	Jul 1999	Jun 2001	Affiliated to Anna University, Chennai.

AREA OF RESEARCH

- ❖ Network Security
- ❖ Big Data Analytics
- ❖ Cloud Computing Scheduling and Security Issues
- ❖ Data Structures

INTERNATIONAL JOURNAL PUBLICATIONS

1. Pavan Kumar Pagadala and **Dr. Saravanakumar N.M.**, “ **Enhancing the Efficiency of Routing Protocols in VANETS by defending Dos Attacks using BF-IPCM**”, *Int. Journal of Advanced Networking and Applications*, Volume: 09 Issue: 04 Pages: 3510-3514(2018) ISSN: 0975-0290.
2. Pavan Kumar Pagadala and **Dr. Saravanakumar N.M.**, “ **Routing Protocols In Vehicular Ad Hoc Networks: A Survey**”, *Global Journal of Engineering Science And Researches*, DOI-10.5281/zenodo.1133199, pp.93 – 107, Dec’ 2017. *ISSN 2348 – 8034*.

3. Mukilan V and Dr. Saravanakumar N.M., “*2n Factorial design of view of thermal images for detection Correlation coefficient variants factors of object for environmental issues*”, **International Journal of Advanced Intelligence Paradigms – Inderscience Publishers**. **RG Journal impact 0.38, RG Journal Impact: 0.81, Scopus.**
4. Rajeshwari, M., Sathya, R, Lavanya, S., and Dr.Saravana Kumar N.M., “*An Asymptotic Performance Measurement of Machine Learning Approach Using Data Mining Techniques*”, **International Journal of Current Signal Transduction Therapy** (Accepted for publication in the month of Sep ‘2018). **Scopus RG Journal Impact: 0.55, ISSN: 2212-389X (Online), ISSN: 1574-3624 (Print).**
5. Lavanya, S., Dr.Saravana Kumar N.M., Sindhuja S., and Thilagam, S., “Experimental analysis on secured agent based resource matching and virtual grouping of cloud resources—An integrated approach – **IEEE – Digital Explorer -DOI: [10.1109/ICCPCT.2017.8074361](https://doi.org/10.1109/ICCPCT.2017.8074361)**
6. Lavanya, S., Dr.Saravana Kumar N.M., and Thilagam, S., “*Secure key management Scheme for multicast Network using Graphical Password*”, **Springer-Monet** (Review Completed - Accepted for publication in the month of Sep ‘2018).
7. Lavanya, S., Dr.Saravana Kumar, N.M. and Thilagam, S., “*Fog Computing Based Radio Access Network In 5g Wireless Communications*”, **IEEE- Digital Explorer - DOI: [10.1109/WiSPNET.2017.8299819](https://doi.org/10.1109/WiSPNET.2017.8299819).**
8. Thilagam, S., Dr. Saravana Kumar, N.M., and Lavanya. S, “*Secure scheme for Key Management in multicast network using Certificate less IKEv2*”, **International Journal of Innovation and Scientific Engineering Research - ISSN: 2347-9728(print) (Scopus).**
9. Dr Sampath P., Dr TamilSelvi S., Dr. Saravanakumar N.M., Eswari T and Lavanya, S., “*Diabetic Data Analysis in Heath Care using Hadoop Architecture over Big Data*”, **International Journal of Biomedical Engineering and Technology – Inderscience Publishers, DOI: [10.1504/IJBET.2017.10003493](https://doi.org/10.1504/IJBET.2017.10003493), Vol.23, No.2/3/4, pp.137 – 147, 2017. [Scopus \(Elsevier\)](https://www.scopus.com/elsevier) ISSN online:1752-6426, ISSN print: 1752-6418 RG Journal Impact: 0.60**
10. Saravana Kumar, N.M., Deepa, S., Eswari, T., and Lavanya, S., “*Signature Based Vulnerability Detection over Wireless Sensor Network for Reliable Data Transmission*”, **Wireless Personal Communications – Springer, DOI [10.1007/s11277-015-3070-2](https://doi.org/10.1007/s11277-015-3070-2), Pages: 01-12, Impact factor: 0.951, Scopus and Science Citation Index Expanded (SciSearch),**
11. Tamilselvi Saravanakumar, Dr N.M.Saravanakumar, and K.P.Kannan, “*In Silico Approach Rendering Berberine as a Potent Anti-Inflammatory Drug*”, **Journal of Pure and Applied Microbiology (Special Issue on Recent Research Challenges in Bio-medical Applications),ISSN: 0973-7510,9(1), 2015,Pages: 07-15 , Impact factor: 0.075. (Annexure – I). Web of Science & scopus.**
12. Saravana Kumar, N.M., and Lavanya, S., “*A Provision of Secure Group Communication and Reduced Overheads in Grid Circumstances*”, **Australian Journal of Basic and Applied Sciences, 9(16) Special 2015, Pages: 204-210, Impact factor: 0.485.**
13. Saravana Kumar, N.M., Eswari, T.and Lavanya, S., “*Predictive Methodology Diabetic Data*

- Analysis in Big Data*”, Elsevier – Procedia – Computer Science, ISSN No: 1877-0509, DOI: 10.1016/j.procs.2015.04.069, Impact factor: 1.2. Scopus
14. Nithya Devi, G., Lavanya, S. and Dr Saravana Kumar, N.M., “An Integration of Negotiation Protocol with Agent Mechanism for Dynamic Resource Allocation in Cloud”, *International Journal of Applied Engineering Research (IJAER)*, ISSN 0973- 4562, Vol. 10 No.20 (2015), Impact factor: 1.93. Scopus
 15. Govarthini, T., and Dr Saravana Kumar, N. M., “Privacy Preserving in Multi – Hop Wireless Network Using Fully Homomorphic Encryption”, *International Journal of Applied Engineering Research - IJAER*, ISSN 0973-4562, Vol. 10 No.20 (2015), Impact factor : 1.93. Scopus
 16. Saravana Kumar, N.M., Purusothaman, T and Lavanya, S., “A Novel Scheme for Secure Group Communication in Multicast Network”, *International Journal of Security and Networks (IJSN) –Inderscience Publication Ltd*, ISSN No:1747-8405, Vol :09, No. 2, 2014, Impact factor : 1.93. Scopus
 17. Saravana Kumar, N.M., and Lavanya, S., “Group-Based Access Technique for Effective Resource Utilization and Access Control Mechanism in Cloud”, Lecture notes series in Electrical Engineering – Advances in intelligent systems and computing- Springer Verlag, ISSN No: 1876-1100; Vol : 325, No. XVII, 2014, Impact factor: 0.16. Scopus.
 18. Saravana Kumar, N.M., Keerthana Rathinasamy and Mythili Chezhan, “Dynamic Architecture and Performance Analysis of Secure and Efficient Key Management Scheme in Multicast Network”, Lecture notes series in Electrical Engineering – Advances in intelligent systems and computing- Springer Verlag, ISSN No: 1876-1100; Vol: 324, No. XVII, 2014, Impact factor: 0.16. Scopus
 19. Dr. Saravana Kumar, N.M., Dr. Purusothaman, T. and Lavanya, S., “One-Cost Complexity for Group Communication and Enhanced Security in Grid Circumstances”, *Journal of Applied Theoretical and Information Technology (JATIT)*, ISSN: 1992-8645, Vol.69 No.3, 2014, Impact factor: 0.26. Elsevier SCOPUS
 20. Saravana Kumar Muthusamy, Purusothaman Thiyagarajan and LavanyaSelvaraj, “An Enhanced and Cost Effective Group Key Management Scheme for Multicast Network”, *Journal of Computer Science – the Science Publication*, ISSN No: 1552-6607; Vol: 9, No : 4, 477-487, 2013, Impact factor : 0.691. Scopus
 21. Saravana Kumar, N.M., Dr. Purusothaman, T. and Lavanya, S., “Group-Based Access Technique for Effective Resource Utilization and Access Control Mechanism for Secure Data Access in Cloud”, - *ICTACT Journal - Special issue on “Soft Computing for Agriculture, Green ICT, Cloud & Big Data Analytics”*, - ISSN No: 0976-6561, in November’ 2014, Impact factor: 0.412.

22. Saravana Kumar, N.M. and Keerthana Rathinasamy, “*A Cost Effective Multicast Key Management Scheme for Secure Group Communication*”, *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, ISSN No: 2320-9801, Vol: 01, No. 01, 2014, Impact factor : 1.770.
23. Saravana Kumar, N.M. and MythiliChezhian, “*Dynamic Architecture for Scalable and Efficient Group Key Management*”, *International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)*, ISSN No: 2320-9801, Vol :01, No. 01, 2014, Impact factor : 1.770.
24. Saravana Kumar, N.M., Purusothaman, Tand Lavanya, S., “*Design and Performance Analysis of Scalable and Efficient Group Key Management Scheme [SEGKMS] for Group Communication in Multicast Networks*”, *Life Science Journal*; ISSN No: Vol:10, No.2, 2013, Impact factor : 2.231.
25. Saravana Kumar, N.M., Purusothaman, Tand Lavanya, S., “*A Performance Analysis on Cluster Based Group Key Management Schemes in Multicast Network*”, *Archives Des Sciences*, Vol 66, No. 2, 2013, Impact factor : 1.536.
26. Saravana Kumar, N.M., Ramachandran, S. and LavanyaSelvaraj, “*A Cluster Based Cost Effective Group Key Management protocol for Multicast Network*”, *Journal of Computer Applications: ISBN:973-93-80878-89-1h*, 2013, Impact factor : 0.821.
27. Saravana Kumar, N.M., and Lavanya, S., “*SEGKMS: Scalable and Efficient Group Key Management Scheme in Multicast Networks*”, *European Journal of Scientific Research*, ISSN No: 1450-202X, Vol. 89 No 3, pp.394-408, 2012, Impact factor: 0.74. Thomson Reuters ISI Web of Science.
28. Saravana Kumar N.M., and Purusothaman, T., “*Secured Autonomous Key Management with Bai’s Secret Sharing Schemes*”, *CIIT – International Journal of Wireless Comm.*, ISSN No: 0974 – 9756, Vol 4, No 10, 2012, Impact factor: 0.574.
29. Lakshmanaperumal J., Thanushkodi K ,Saravana Kumar N.M., Saravanan K. and Dr. Purusothaman T., “*Efficient Key Management Scheme for Secure Multicast in MANET*”, *IJCSNS – International Journal of Computer Science and Network Security*, ISSN No:1738-7906 ,Vol.10 No.11, 2010, Impact factor: 0.974.

RESEARCH / Ph.D - GUIDANCE- 9 PERSONS

S.No.	Name of the Research Scholar	Batch of Admitted	Register No.	Status
1	Mr. Srithar S	Jul 2016	16144697249	Confirmation Completed
2	Mrs. Surya Praba E	Jan 2017	17244691186	Confirmation Completed
3	Mr. Karthikeyan N	Jan 2017	17144691399	Confirmation Completed
4	Ms. Lavanya S	Jul 2017	17244697333	Course Work Completed

5	Mr. Pavan Kumar P	Jul 2017	17144697614	Course Work Completed
6	Ms. Eswari T	Jul 2017	17244697335	Course Work Completed
7	Mr. Siva Kumar M	Dec 2017	18134691273	Course Work Completed
8	Mr. Purandhar N	Jun 2018	18144697143	On Going
9	Mr. Ganesh A	Jun 2018	18144697292	On Going

Invited Guest Lectures Delivered

S.NO	PROGRAM	VENUE	DATE
1	Reason Innovations in Engineering Technology and Management	Nandha College of Engineering	25-03-2017
2	srishta 17	Sasurie College of Engineering	03-02-2017 & 04-02-2017

Awards

S.NO	AWARDS
1	KEYNOTE SPEAKER ON 2 ND INTERNATIONAL CONFERENCE ON I-SMAC (IOT IN SOCIAL, MOBILE, ANALYTICS AND CLOUD)

Books Published : Nil

Patents Filed : Nil