




# SRM Valliammai Engineering College

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

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## Department of Information Technology

### PERSONAL DETAILS

<b>Name :</b>	Dr. S. NARAYANAN	
<b>Designation :</b>	Assistant Professor (Sel. G)	
<b>Educational Qualification :</b>	B.E., M.Tech., Ph.D.	
<b>Experience:</b>	20 years and 7 months	
<b>Area of Specialization :</b>	MANET, COMPUTER NETWORKS, DATA ANALYTICS	
<b>Date of Joining :</b>	20.06.2005	
<b>Email ID :</b>	nsk1178@gmail.com, narayanans.it@valliammai.co.in	
<b>Contact Numbers :</b>	<b>044-27454784</b>	

### EDUCATIONAL DETAILS

S.No	Degree	Branch/Specialization	Institution / University	Year
1	Ph.D	Information and Communication Engineering	Anna university ,Chennai	2017
2	M.Tech.	Computer and Information Technology,	Manonmaniam Sundaranar University.	2005
3	B.E.	Electronics and Communication Engineering	Govt. College of Engineering - Bargur/ University of Madras.	2000

### PROFESSIONAL SOCIETY MEMBERSHIPS

- **Life Membership** in computer Society of India –I1504756
- **Life Membership** in ISTE-LM119361

### BOOK PUBLISHED

- Published a Book of "Information Technology Essentials" in 2018 [Sri Krishna Hitech Publisher; ISBN: 978-93-86590-44-2].

## PATENT

- Title of the Invention: "GROUND WATER MONITORING AND WATER LEVEL MANAGEMENT SYSTEM USING IOT"
- Title of the Invention: "DYNAMIC REAL TIME PROTOCOL FOR MEDIA STREAMING IN IOT DEVICES" Published on July 2021.
- Title of the Invention: "MULTISENSORY INPUT DATA EXCHANGE BY VIRTUAL REALITY OVER 5G" Published on July 2021.

## PROJECT PROPOSALS SUBMITTED

- Research Proposals submitted for Funding Agency TNSCST "IoT Based Intelligent Water Level management and Information system" On Feb 2019.
- Student Project Proposal submitted to TNSC under my Guidance on "ASSISTIVE BLIND STICK FOR OBJECT, STEPS AND WATER DETECTION, NAVIGATION AND CURRENCY RECOGNITION SYSTEM" on Oct 2020.
- Research Proposals submitted for Funding Agency serb "Deep Climate Change Projection (DCCP): A Deep Learning Based Spatial Analysis Model to Forecast Regional Climatic Conditions" August 2021

## PUBLICATION DETAILS

### INTERNATIONAL JOURNALS

1. Narayanan,S., Rani Thottungal , "Cross-Layer Based Routing and Rate Control Using Fuzzy Decision Systems in MANET " International Review on Computers and Software (IRECOS) , Vol No: 8. N.2, Pg. No. 642-652, February 2013. [ **Indexing :Google Scholar**]
2. Narayanan,S., Rani Thottungal "Cross-layer Based Routing and Power Aware Rate Adjustment (CBR-PARA) MAC Protocol for MANET" Research Journal of Applied Sciences, Engineering and Technology 11(5): 460-467, ISSN: 2040-7459; e-ISSN: 2040- 7467 Oct 15. [ **Indexing :Google Scholar**]
3. Narayanan,S., Rani Thottungal,"Cross-Layer based Fair Resource Allocation for MANET" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, pp 41623-41628, Num 15.[**Indexing :SCOPUS, Google Scholar**]
4. Narayanan,S., Rani Thottungal, Aarthi, R., M.Nija Priya,M., Anu, M.," Cross- Layer Based Efficient Data Transmission in MANET using Fuzzy Logic" International Journal of Networks (IJN) Vol. 1, Issue. 1, ISSN (Online): 2454-1060, pp.01-09 , Apr – 2015. [ **Indexing :Google Scholar, Research Gate**]

5. Narayanan,S., Rani Thottungal , “Fuzzy Logic based Multicast Routing Protocol in MANET” International Journal of Engineering Research & Technology (IJERT), Vol. 5 Issue 01, January-2016. [**Indexing: Google scholar, Research Gate**]
6. Narayanan,S et al, “Classification of secure encrypted relational data in Cloud computing” IJRET: International Journal of Research in Engineering and Technology eISSN: 2319- 1163 | ISSN: 2321-7308, Volume: 05 Issue: 03, Mar-2016. [**Indexing: Google scholar**]
7. Narayanan,S et al “The Packet Estimation Algorithm to prevent Collaborative attacks in MANET” International Journal of Computer Science and Information Technology Research, Vol. 4, Issue 2, pp: (69-75), April - June 2016. [**Indexing: Google scholar**]
8. Narayanan,S “Survey of Fuzzy and Cross Layer Routing Protocols in Manet” International Journal of Scientific & Engineering Research”Volume 8,Issue 11,November 2017. [**Indexing: Thomson Reuters**]
9. Narayanan,S., Rani Thottungal,” Cross Layer Based Multicast Routing Protocol Using fuzzy Decision System in Mobile Ad Hoc Network” International Journal of Pure and Applied Mathematics, Volume 118,No. 17, Jan 2018. [**Indexing: SCOPUS**]
10. S. Narayanan et al ,” IoT based Wearable Device Monitoring Driver’s Stress, Fatigue, and Drowsiness” International Journal of Scientific & Engineering Research “Volume 10,Issue 2,November 2019. [**Indexing: Thomson Reuters**]
11. S. Narayanan et al,” Eyebot – A Smart Assistive System “,International Journal of Innovative Research in Science, Engineering and Technology. Vol. 9, Issue 2, February 2020.
12. S. Narayanan et al “Edge Computing: Network and Security Challenges” International Journal of Scientific Research and Reviews, March 2021.( **UGC Recognized Journal.**)
13. S. Narayanan et al,” Data protection and threat prediction in industrial IoT cloud environment” International Journal of Engineering Systems Modelling and Simulation-online published Jan2022. [**Indexing: SCOPUS**]
14. S. Narayanan et al,” A data transmission approach with energy reduction based on virtual machine migration technique in cloud computing” International Journal of Engineering Systems Modelling and Simulation-online published Jan2022. [**Indexing: SCOPUS**]

## **CONFERENCES:**

### **INTERNATIONAL CONFERENCE**

1. Presented a paper titled “Cross layer based efficient data transmission in MANET using Fuzzy Logic” ICTAET '15 organized by IISRT at Chennai.4th April 2015.
2. Presented a paper titled in “Cross layer based multicast routing protocol using fuzzy decision system in MANET” ENVISTA-2015 ORGANIZED BY SATHIYABAMA University 3rd -5 th December 2015.

### **NATIONAL CONFERENCE**

1. Presented a paper titled “ Cross layer design for real time decision making in ADHOC networks” , National conference on Transpiring trends in computer science and Information Technology, at Sakthi Engineering college , 11th March 2011
2. Presented a paper titled “ Enabling Keyless Secure Acoustic Communication in Smart Phone” National Conference on “Ambient Systems and Technologies “organized by the Department of Computer Science and Engineering at Gojan School of Business and technologies.28th March 2015.

## **OTHER DETAILS**

### **SYMPOSIUM / SEMINAR ORGANIZED**

1. Two days Technical Symposium XploITs2k8 organized in the department of Information Technology.
2. Seminar on “Information Security” organized in the department 8th September 2011.
3. Two days Technical Symposium XploITs2k13 organized in the department of Information Technology.
4. Guest lecture on “Big Data Analytics” organized in the department on 25th July 2014.
5. Seminar on “Wireless Intelligent Network” organized in the department on 31st July 2015.
6. Two days Technical Symposium XploITs2k16 organized in the department of Information Technology.
7. Seminar on “Strategic Analysis on R-Language” organized in the department on 2 nd August 2017.
8. FDP conducted on “EC6504-Microprocessor and Micro Controller” on 23.11.17 & 24.11.17.
9. One day National level Conference Organized on March 17th 2018.

10. FDP conducted on “IT6502-Digital signal Processing” on May 16th & May 17th 2018.
11. One day Technical Symposium XploITs2k18 organized in the department of Information Technology on 22.09.2018
12. Six days FDP conducted on “Communication, Network, Security ” on May 28-05-19 & June 4 th 2019.
13. State level Science Quiz for Higher Secondary School Students through online between 19.06.20 to 22.06.20.
14. Motivational Talk conducted on 18.7.20 through online.
15. International Webinar conducted on "FULL STACK DEVELOPMENT" on 7.11.2020.
16. International Webinar conducted on "BUILDING MINIMUM VIABLE PRODUCT FOR STRATUPS "on 8.11.2020 .
17. Co-coordinator for AICTE –STTP on “IoT and its applications” from 23.11.20 to 28.11.20.
18. Six days FDP organized on “DATA STORAGE AND PROCESSING THROUGH CLOUD COMPUTING” from 24.05.2021 to 29.05.2021.

#### **INVITED TALK [RESOURCE PERSON]**

1. Delivered expert lecture in MCA department of Valliammai Engineering College “MC730 Professional Ethics” on 30th June 2016.
2. Demonstrated the Grid and Cloud Computing lab in Indira Institute of Technology Information Technology Department on 25-07-16.
3. Resource person for FDP on “Computer Networks” conducted on 4-5-17 & 5-5-17 in the department of IT.
4. Value added course conducted during 2016-17 even semester in the title of “Advanced Programming”
5. Value added course conducted during 2017-18 ODD semester in the title of “Network Simulation (NS2)”
6. Resource person for FDP on “Communication, Network and Security” held on 28th to 31st May & 03rd to 4th June 2019.
7. Resource person for FDP “Database to Forensic” held on 2.11.2019 to 8.11.2019.
8. Resource person for AICTE-STTP in the title “IoT in Edge Computing” held on 23.11.20 to 28.11.20.
9. Resource person for FDP in the title “Compiler optimization with Computational Intelligence and Cyber Security” on 29.12.20.

10.Resource person for SIX days FDP on “DATA STORAGE AND PROCESSING THROUGH CLOUD COMPUTING” from 24.05.2021 to 29.05.2021 Organized by the Faculty of Information Technology SRMVEC.

11. Resource person for SIX days FDP on ““Breadth and Depth of 6D’s (1.Data Base,2.Data Mining, 3.Big Data, 4.Data Virtualization, 5.Data Science,6.Data Analytics)” organized by the Faculty of Information Technology, from 28th Dec 2021 to 10th Jan 2022.

### **PRIZES AND MEDALS**

1. In May 2005 100% result produced in the subject Professional Ethics.
2. In May 2010 100% result produced in the subject IT1008-Software Testing.
3. In May 2011 100% result produced in the subject IT1006-Enterprise Resource Planning
4. In May 2012 100% result produced in the subject CS2056- Distributed Systems.
5. In Dec 2017 100% result produced in the subject Grid and Cloud Computing.
6. Certificate of Merit received for research paper publications in International journal during the academic Year 2012-13.
7. Certification of participation received for research paper publication in the International journal during the Academic Year 2015-16.

### **ONLINE COURSE COMPLETION**

- 1.Successfully participated 20 Days Machine Learning Master Class at Pantech e learning Pvt ltd. Chennai. From 15.11.2021 to 14.12.2021.
- 2.Successfully completed AICTE course on “Orientation towards Technical education and curriculum aspects “Feb 2021 an online course of NITTTR
- 3.Successfully completed AICTE course on “Professional ethics and sustainability “Feb 2021 an online course of NITTTR.
4. Successfully completed and received a passing grade in “Introduction to Data Science (DS0101EN, provided by Cognitive Class) October 1 2020|an online course on Cognitive class
5. Successfully completed, received a passing grade, and was awarded a NPTEL online certification “Advanced IOT Application” Jan-Mar 2019.
6. Successfully completed, received a passing grade in “Deep Learning Fundamentals” (ML0115EN, provided by DeepLearning.TV) OCTOBER 20, 2018 | an online course on Cognitive Class.

7. Successfully completed, received a passing grade, and was awarded a NPTEL online certification “Wireless Ad Hoc and Sensor Networks” Jan-Mar 2017.
8. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in “Hadoop 101” NOVEMBER 8, 2016 | BD0111EN CERTIFICATE
9. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in” Map Reduce and YARN” NOVEMBER 11, 2016 | BD0115EN CERTIFICATE.
10. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in “Accessing Hadoop Data Using Hive” NOVEMBER 15, 2016 | BD0141EN CERTIFICATE
11. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in” Moving Data into Hadoop” NOVEMBER 11, 2016 | BD0131EN CERTIFICATE.
12. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in” Controlling Hadoop Jobs using Oozie” NOVEMBER 16, 2016 | BD0133EN CERTIFICATE.
13. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in” Developing Distributed Applications Using ZooKeeper” NOVEMBER 16, 2016 | BD0135EN CERTIFICATE
14. Successfully completed, received a passing grade, and was awarded a Big Data University Certificate of Completion in” Solr 101” NOVEMBER 17, 2016 | BD0137EN CERTIFICATE.

### **FDP/SEMINAR PARTICIPATION**

1. Successfully Completed “2-day Internal Auditor Training on Quality Management System as per IS 9001:2008 standard” at Chennai on 18th and 19th June 2009.
2. Attended 3 days FDP on FREE/OPEN SOURCE SOFTWARE from 16th to 18th November 2009 held at Valliammai Engineering College
3. Attended national workshop on “Next generation wireless technologies long term evolution (NGWT- LTE)” during 4-5 December 2009 at MIT Chennai.
4. Participated in national workshop on “NETWORK SIMULATOR TOOL NS-2” organized by the department of computer science and engineering on 8 th December 2010.
5. Participated in 98th Indian Science Congress Information and communication science & technology section held at SRM University, Chennai- 3-7 Jan 2011.

6. Participated in two days' work shop on Cisco Network Design and Implementation at Jeppiaar Institute of Technology, Kunnam, and Chennai on 18th and 19th December 2014.
7. Participated in the FDP on Artificial Intelligence through industrial visit held on 10th December 2014.
8. Participated in 3 days FDP on "CS6712-Grid and Cloud Computing Lab" organized by the department of CSE, Jeppiar SRR Engineering College, held on 5 th -7 th of May 2016.
9. Participated 2 days FDP on "CS6703-Grid and Cloud computing" organized by department of IT at Valliammai Engineering College, held on 30th June and 1 st July 2016.
10. Participated in the FDP on " Design and Analysis of Algorithms "conducted on 22nd and 23rd December 2016.
- 11.Participated in 3days workshop on " Grid and Cloud Computing" organized by Department of CSE, Valliammai Engineering College held on 26th -28th May 2016.
12. Participated in webinar on "Integration of Data Science and Related Technologies with Business Needs" conducted by Dept.of IT, SRM Valliammai Engineering College.
13. Participated in webinar on "Deep Learning Techniques-CNN,R-CNN" conducted by Dept.of CSE, B V Raju Institute of Technology, Hyderabad.
14. Participated in webinar on "Python Programming and its Applications" conducted by Pantech E Learning.
15. Participated in webinar on "Cloud Computing and Visualization" Dept. of CSE &IT Arulmigu Meenakshi Amman College of Engineering, Thiruvannamalai. 10<sup>th</sup> July 2020.
16. Participated in webinar on "Artificial Intelligence & Data Science with Real World Applications.by Dept.of IT, SRM Valliammai Engineering College. 11<sup>th</sup> July 2020.
- 17.Participated in webinar on "Python Programming "by Vignana Bharathi Institute of Technology. 11<sup>th</sup> July 2020
- 18.Participated in webinar on "Brain Computer Interface Robot"by Dept.of CSE, Mahatma Gandhi Institute of Technology.
- 19.Participated in webinar on " 5G ENABLING TECHNOLOGY AND IT'S PROS AND CONS " on 16.05.2020.By Sathya bama Institute of science and technology
- 20.Participated and completed ATAL online FDP on "Data Science" from 16.11.20 to 20.11.20 at Veer Surendra Sai University (VSSUT),Odisha.
- 20.Participated in six days online STTP on "Data Analytics and supporting services using machine learning" conducted by Department of CSE , Dhirajlal Gandhi College of Technology –Salem from 7<sup>th</sup> -12<sup>th</sup> November 2020.



21. Participated in six days online FDP on "Recent Advancements in Machine Learning and Artificial intelligence, delivered from 02-Nov to 06-Nov, 2020 at SRM University AP, Andhra Pradesh.

22. Participated in International Webinar on "IoT and Adoption for Industrial Revolution" on 13<sup>th</sup> May 2021.