




SRM Valliammai Engineering College

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

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Department of CSE

Personal Details

Name :	Dr.B.Vanathi	
Designation :	Professor	
Educational Qualification :	B.E.,M.E.,Ph.D	
Experience:	20 years	
Area of Specialization :	Computer Science and Engineering	
Date of Joining :	01/11/2007	
Email ID :	mbvanathi@gmail.com, vanathib.cse@valliammai.co.in	
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E	CSE	Sri Ramakrishna Engineering College,Bharathiyar University,Coimbatore	1998
2	M.E	CSE	SRM Engineering College, Madras University	1999
3	Ph.D	ICE	Anna University,Chennai	2013

Professional Society Memberships

1. Indian Society of Technical Education: Life Member
2. Computer Society of India(CSI): Life Member
3. International Association of Engineers(IAENG): Life Member
4. Academy & Industry Research Collaboration Center(AIRCC): Life Member
5. Association of Computer, Electronics and Electrical Engineers(ACEEE) : Senior Member
6. Institution of Electrical & Electronics Engineers(IEEE): Member
7. Association for Computing Machinery(ACM): Member
8. Institute of Doctors, Engineers and Scientists(IDES): Member
9. Indian Association of Research in Computing Sciences(IARC): Member

Publication Details

Journals:

- 1.Dr.B.Vanathi,K.Shanmugam,Enhancing Secure Transaction And Identity Authentication Method Based On Mixed Fingerprint, Hmac Techniques and QR-Code In M-Commerce,Australian Journal Of Basic Applied Sciences, ISSN: 1991-8178, January 2015, Pages: 149-164.
- 2.Dr.B.Vanathi,K.Shanmugam, A Journey through Existing Procedures on Secure Transaction using Biometric authentication in Mobile Commerce, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Number 9 (2015).
- 3.K.Shanmugam, Dr.B.Vanathi, Enhancing secure transaction and identity authentication in M-commerce", International Journal of Advances in Science Engineering and Technology, ISSN: 2321-9009 Volume- 1, Issue-3, Jan-2014.
- 4.K.Shanmugam, Dr.B.Vanathi, Fuzzy logic implementation of fingerprint mechanism for secure

transaction and identity authentication in M-commerce, International Journal of Recent Advances in Engineering and Technology(IJRAET),ISSN:2347-2812,volume-2,Issue-2,2014.

5.K.Shanmugam, Dr.B.Vanathi"A Novel Secure Transaction and Identity Endorsement in M-Commerce ", International Journal of Engineering Development and Research (IJEDR), ISSN: 2321-9939, Vol.2, Issue NCETSE Conference, pp.186-195, March 2014.

6.K.Shanmugam, Dr.B.Vanathi, "Enhancing Pin Distribution Techniques by Amalgam Encryption in M-commerce" International Conference on Trends in Technology for Convergence 'TITCON-April 2014'.

7.K.Shanmugam,Dr.B.Vanathi,Secured M-Commerce Transaction Using Mixed Fingerprint Authentication, ", International Journal of Engineering Development and Research (IJEDR) | NC3N 2015 | ISSN: 2321-9939.

8.K.Shanmugam,Dr.B.Vanathi, Secure and Efficient Data Transmission in Wireless Sensor Network Using SET Protocols, International Journal of Engineering Development and Research (IJEDR) | NC3N 2015 | ISSN: 2321-9939.

9.K.Shanmugam,Dr.B.Vanathi,Unsupervised Learning of video image model for object recognition using Background subtraction with AND-OR Template, International Journal of Engineering Development and Research (IJEDR) | NC3N 2015 | ISSN: 2321-9939.

10.K.Shanmugam,Dr.B.Vanathi, Intensifying Security Using Multifactor Authentication for Mobile Banking, International Journal of Engineering Development and Research (IJEDR) | NC3N 2015 | ISSN: 2321-9939.

11.K.Shanmugam,Dr.B.Vanathi, Secure and Efficient Data Transmission in Wireless Sensor Network Using SET Protocols, International Journal of Engineering Development and Research (IJEDR) | NC3N 2015 | ISSN: 2321-9939.

12. A Secure m-commerce architecture for service provider to improve quantity and quality of the product using finger print authentication and gender classification, Asian Journal of Information Technology, ISSN 1682-3915, page no 232-242 (2016).

13. Enhancing Secure transaction and user authentication method based on fingerprint mechanism using fuzzy logic, Amalgam encryption for pin distribution process in m-commerce , Asian Journal of Information Technology, ISSN 1682-3915, page no 243-254 (2016).

14. A Secure OTP and voice authentication by using KIVOX mobile software scheme for mobile banking , International Journal of Innovative Reseach and Creative Technology, ISSN 2454-5988, Volume 1, Issue 2, (2015).

15.Vanathi.B, RhymendUthariaraj, V.: Context Aware System for Smart Consignment Tracking European Journal of Scientific Research ISSN 1450-216X Vol.50 No.4 (2011), pp.586-596,© EuroJournals Publishing, Inc. 2011

16.Vanathi.B, RhymendUthariaraj, V.: Comparing and Choosing Appropriate Database for Storing Context in Context Aware System ,Journal of Computer Science 7 (7): 1027-1032, 2011,ISSN 1549-3636 , © 2011 Science Publications , Publication Date: June 28 2011 , DOI: 10.3844/jcssp.2011.1027.1032

17. A Secure OTP and voice authentication by using KIVOX mobile software scheme for mobile banking , International Journal of Innovative Reseach and Creative Technology, ISSN 2454-5988, Volume 1, Issue 2, (2015).

18. Secure Sharing of Data for Dynamic Grouping in Cloud Storage Application, International Journal of Scientific Engineering and Reseach, ISSN 2229-5518, Volume 7, Issue 3, (2016).

19. Survey about object Detection and Classification in Image Processing, International Journal of Scientific Developement and Reseach, ISSN 2455-2631, Volume 1, Issue 3, (2016).

20. MediciQR-Adoption of Foolproof Technology in Pharmaceuticals , International Journal Innovative Research in Computer and Communication Engineering, ISSN 2320-9801, Volume 4, Issue 3, (2016).

21. A Surveillance Robot for Realtime Monitoring and Capturing Controlled Using Android Mobile, Middle-East Journal of Scientific Research, ISSN 1990-9233, Page Number 155-166, (2016).

22. Software for Tamil Handwritten Character Recognition, international Journal for Scientific Research and Development, Volume 6, issue 2,2018.

23.Offline Tamil Language character Recognition for Digitalizing Process, International Journal of Scientific research and Review, volume 7, issue 5,2018.

24. A journey through Existing procedures on OCR Recognition and text to speech conversion process of bilingual languages, international Journal of Current Engineering and Scientific Research,volume4, Issue 4,2017.

25.Image Processing for Disease Identification in Crop in IJSTE - International Journal of Science Technology & Engineering | Volume 4 | Issue 10 | April 2018. ISSN (online): 2349-784X

26.Text Mining Classification For Effective Learning Experience in International Journal Of Current Engineering And Scientific Research (IJCESR), ISSN (Print): 2393-8374, (Online): 2394-0697, Volume-5, Issue-4, 2018

27.Effective Classification of Text and Improving learning Experience in International Journal of Innovative Research in Technology- IJIRT | Volume 4 Issue 11 | ISSN: 2349-6002| April 2018.

28. Machine Learning Techniques for Handling Geo Spatial Agricultural Data” in International Journal of Management Technology and Engineering, December 2018 ISSN No 2249-7455.

29.“Smart Farming and Machine Learning Techniques” at Suraj Punj Journal For Multidisciplinary Research ISSN No:2394-2886 , Vol.9 Issue 6, 2019

30.Deep Learning Techniques to Address Issues in Data Quality and Data Variety, International Journal of Recent Technology and Engineering (IJRTE) SCOPUS ISSN: 2277-3878, Volume-8 Issue-4, November 2019

31. Hardcopy Text Recognition and Vocalization for Visually Impaired and Illiterates in Bilingual Language, Springer Nature Switzerland AG 2019, EAI/Springer Innovations in Communication and Computing. ISSN 2522-8595 ISSN 2522-8609 (electronic).

Conferences:

1. Published a paper on “Ontology Based Service Discovery for Context Aware System”, in IEEE Sponsored International conference conducted by Madras Institute of Technology, Chennai, India 2009.

2. Published a paper in an Springer LNCS conference “International conference on Advances in Information and Communication Technologies (ICT 2010)” conducted by AIRCC in Kochi, Kerala, India during sep 7- 9 , 2010

3. Published a paper in an ACM-W conference “First Conference of women in Computing in India”, conducted by Amrita Institute of Technology, Coimbatore, India during September 16th and 17th 2010.

4. Published a paper in Springer LNCS conference “ The First International Conference on Computer Science and Information Technology (COSIT 2011) conducted by AIRCC in Bangalore, India during Jan 2 – 4 , 2011

5. Published a paper in Springer LNCS conference “ The Second International Conference on Networks & Communications (NetCoM – 2010)” held in Chennai, India on Dec 27-29, 2010

6. Published a paper in an IEEE conference “ 2nd International Conference on IT & Business Intelligence (ITBI - 10)” to be held in Nagpur, India on Nov 12-14, 2010

7.Published a paper in Springer LNCS conference “The Second International Workshop on Ad Hoc & Ubiquitous Computing (AUC 2010), to be held in Chennai ,India on Dec 27-29, 2010

8.Published a paper in a national level conference titled “Sowing Seeds in the Young Minds To Achieve Greater Heights”, In Sustaining Global Pressures: Women in Science and Engineering (SGPW 2008)

International Conferences:

1. Attended one day workshop on “R&D Project Proposals – Awareness, Needs and Benefits” organized by centre for Technology Development and Transfer,Anna University on 28th June 2013.

2. Attended the Author Workshop conducted by Springer and Edanz along with the Department

of Information Science & Technology, Anna University at Chennai on 29th January 2013.

3. Two week ISTE Workshop on “Effective teaching/learning of Computer Programming” Conducted by Indian Institute of Technology Bombay from 14th to 24th December 2009.

4. Participated in two day workshop on “Pervasive and Ubiquitous Computing “conducted during 3rd & 4th April 2009 by Computer Centre, MIT Campus Jointly with Ramanujan Computing Centre (RCC) Anna University Chennai Sponsored by TEQIP.

5. Attended a one day seminar on “Indo-US seminar on Research Perspectives for University Excellence: A US model for India”, organized by Department of Manufacturing Engineering & Centre for International Affairs, Anna University Chennai on 10th August 2009.

6. Attended a technical talk on “Advance Wireless Technology for Mobile Broad Band “by Mr.A.Ganesan DGM BSNL Retired & IMM.EADT Chairman IETE & seven Habits for Highly Effective People by Mr.S.RajaRam HR Consultant on Saturday 19th December 2009 at 6.00 pm in ISTE Profession Centre, Chennai.

7. Attended an AICTE sponsored QIP Short term Course on “Computer Networks – Fundamentals to the State-of-the Art Technologies” , from 18th-29th February 2008 at Ramanujan Computing Centre (RCC),Anna University Chennai.

8. Attended an AICTE sponsored QIP short Term Course on “Recent Trends in Grid Computing “ from 3rd – 15th March 2008 at Department of Information Technology, MIT Campus, Anna University, Chromepet , Chennai.

9. Attended a two day workshop on “Thesis Writing” organized by Centre for Empowerment of Women in collaboration with Department of Humanities and Social Sciences on 4.12.2008 and 5.12.2008 at Anna University Chennai.

10. Attended an Faculty Development Training Programme on “Quantitative Techniques for Research in Engineering and Management” conducted by Department of Industrial Engineering, Anna University Chennai under TEQIP sponsorship during February 8-9, 2007.

11. Attended two day workshop on “Network Processors” conducted at the Department of Computer Science & Engineering, College of Engineering ,Guindy, Anna University Chennai during 22nd and 23rd June 2006.

12. Attended two day “workshop on Grid Computing” Organized by Tata Consultancy Services and Department of Computer Science and Engineering, Easwari Engineering College, Chennai on 17th and 18th Feb. 2006.

13. Attended short term course on “Web Technology” at Sri Sai Ram Engineering College, Chennai from 15th to 20th may 2006 organized by Centre for Faculty Development, Anna University, Chennai.

14. Attended two day workshop on “.NET Technologies” held on 28th & 29th July 2006, organized by Department of Information Technology, SRM Institute of Science and Technology .An ISO 9001:2000 Certificate

15. Attended AICTE QIP Sponsored Short term Course on “Language Technologies” from 01.11.2004 to 06.11.2004 organized by Department of Computer Science and Engineering Anna University Chennai.

16. Attended an AICTE-ISTE short term training programme on “Internet Programming “conducted by National Institute of Technical Teachers Training & Research from 06.12.2004 to 17.12.2004 Taramani, Chennai.

17. Attended a National Conference on “Advanced Machine Vision Systems for Societal Applications “organized by Central Electronics Engineering Research Institute Chennai Centre and Bharath Institute of Higher Education and Research Chennai during December 17-18, 2003.

18. Attended “Train the TRAINERS Workshop’03” from 03-05 April 2003 Organized by Infosys and Anna University, Chennai on Confluence of Industry and Academia.

Research and Development Details

No of Conferences Convened:	3
No of National seminar Convened:	3
Centre of Excellence Convened:	4(Data analytics and machine learning, Cloud computing, Network security and IOT)
Research Fund	TNSCST –student projects(2017-2018) – Rs.10,000/-
Ph.D -Supervision	Four students are doing research under my guidance in Anna University
Project proposals applied	submitted the Project proposal entitled “ Intelligent OCR to Recognize and Digitalize the south Indian Tamil language script ” for financial support to this NRDMS’s -“Spatial Data Infrastructures (SDI) for Urban Governance Applications”Department.
	submitted the Project proposal entitled “ A Machine Learning Approach for Handling Geo Spatial Agricultural Data ” for financial support to this NRDMS’s -“Spatial Data Infrastructures (SDI) for Urban Governance Applications”Department.

Other Details

Certifications Completed:

1. redhat CERTIFIED ENGINEER Certification Number : 804006602422768
2. IBM CERTIFICATE
3. Customer Requirements Analysis,Brain bench TranscriptID#: 6000870
- 4.Business English Certificate (BEC) Preliminary , Sep 2006 (Offered by the British Council of India)

Awards and Honors Received

- 1.Best Teacher Award (2007)
- 2.Performance Award for PG Teaching (2006 & 2007)
- 3.Merit Certificates for producing 100% results for the following subjects (Software Implementation & Testing ,Computer & Communication Networks ,Computer Graphics and Object Oriented analysis and Design)
- 4.Second Rank holder in PG Programme.
- 5.Letter of appreciation received from Dr. MannarJawahar, Former Vice-Chancellor of Anna University, and Chennai for the work done in TN counseling, 2008.

Consultancy Details:

TCS ion – online exams – Coordinator (All Government and Private Exams)

Book Authored Details

1. **Problem Solving and Python programming – SCM Publishers**