SRM Valliammai Engineering College

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

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Department of CSE

Personal Details

Name :	Mr. K. Shanmugam
Designation :	Assistant Professor (O.G)
Educational Qualification :	B.SC, D.T.Ed, B.E, M.E.,
Experience:	5 years 10 months
Area of Specialization :	Computer Science and Engineering
Date of Joining :	16/06/2014
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	CSE	Anna University Trichy-Ariyalur campus	2012
2	M.E.	CSE	SRM Valliammai Engineering College, Anna University	2014
3.	Ph.D	Information & Communication Engineering	Anna University, Chennai	Pursuing

Professional Society Memberships

1. Indian society for Technical Education(ISTE): Life member
2. Member, International Association of Engineers(IAENG)
3. Member, Institute of Research Engineers and Doctors(IRED)
4. Society of Digital Information and Wireless Communications(SDIWC)
5. Chief Advisory Board Member in Paarivendhar Students Tamil Association
6. Computer Society of India (CSI) : Life Member

Publication Details

Journals:

1. 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.

2. 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.

3. A Novel Secure M-Transaction With Biometric Signature And Partially Ordered Hit Rate Based Key Input Techniques, Journal of Emerging Technologies and Innovative Research (JETIR), ISSN-2349-5162, January 2015, Volume 2, Issue 1.

4. Analysis of Enhanced Encryption and Pin Distribution in Online Mobile Transactions, Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162 Volume 1, Issue 6 (2014).

5. Secure OTP and Voice Authentication by using KIVOX Mobile software scheme for Mobile Banking, International Journal of Innovative Research and Creative Technology, Volume 1 | Issue 2 ,ISSN: 2454-5988.

6. Enhancing Secure Transaction and Identity Authentication Method Based on Mixed Fingerprint, Hmac Techniques nd Qr-Code In M-Commerce, Australian Journal Of Basic Applied Sciences, ISSN: 1991-8178, January 2015, Pages: 149-164.

7. 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).

8. Fingerprint Extraction and Comparison for payment transaction in mobile commerce, International Journal of Engineering Developement and Research, ISSN 2321-9939 (2015).

9. Intensifying Security using multifactor authentication for mobile banking, International Journal of Engineering Developement and Research, ISSN 2321-9939 (2015).

10. 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).

11. 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).

12. 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).

13. 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).

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

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

16. 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).

17.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.

18.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.

19.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.

20.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.

21. 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).

22. 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.

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

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

25. Hard copy text recognition and vocalization for visually impaired and illiterates in Bilingual language, Computational Intelligence and sustainable systems, EAI/ Springer Innovations in Communication and Computing, Springer Nature Switzerland 2019.

International Conferences:

1. 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.

2. Enhancing Pin Distribution Techniques by Amalgam Encryption in M-commerce" International Conference on Trends in Technology for Convergence 'TITCON- April 2014'.

3. A Journey through Existing Procedures on Secure Transaction using Biometric authentication in Mobile Commerce" 2nd International Conference on Engineering Technology and Science - Feb 2015'.

Research and Development Details

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.

Coordinated & Resource Person Training Programme(s)

Five Days FDP on Theory of Computation

Two Days FDP on Resource Management Techniques

Two Days FDP on Complier Design

One Day FDP on Tamil Computing

One Day FDP on Value Education.

One Day Workshop on Machine Learning

One Day Workshop on Language Technology

Delivered a special address at the workshop on Writing Science, Engineering and Technology in Tamil at Anna university Regional campus Thirunelveli on 18.10.2019, organized by Centre for Development of Tamil in Engineering and Technology, Anna University chennai.

National Seminar on Tamil Computing.

Coordinated Project Exhibition (5 Times)

Other Details

Certifications Completed:

1. NPTEL Online Certification Course on Design and Analysis of Algorithms by IIT Madras.

2. NPTEL Online Certification Course on **Outcome Based Pedagogic Principles for Effective Teaching"** IIT Kharagpur - Feb 2017.
3. NPTEL Online Certification Course on Stress Management
4. . NPTEL Online Certification Course on Introduction to Psychology.
5. NPTEL Online Certification Course on Body Language.

Organized Events:

1. Organized a three days Entrepreneurship Awareness Camp (EAC) sponsored by the Entrepreneurship Development Institute of India (EAC) Ahmedabad, NST Entrepreneurship development board, DST, Govt of India, DST NIMAT project 2017-2018 scheme for the Science & Technology and diploma students was held during 13 -15 th July 2017.
2. Organized a One day National Seminar on Tamil Computing on 13.03.2020.
3. Organized a Various Government and Private sector exams at week end by TCS iON.

Tamil Internet Conference :

Mr.K.Shanmugam,AP/CSE, participated in the 18th Tamil Internet Conference from 20.09.2019 to 22.09.2019 organized by the Anna University, Chennai, Tamil Virtual Academy and International Forum for Information Technology in Tamil (INFITT),US.

Extra-Curricular activities:

Tamil Mandram activities :
 I am the Staff incharge of Paarivendhar Student's Tamil association in SRM Valliammai Engineering College.

Organized Events :

- ✓ Organized the 72nd Independence day and conducted Speech, essay, poetry and debate competitions for the students of our College on 09.08.18 &13.08.18.
- ✓ Organized an Inter College Tamil Competition 'Kanavea Vanthean-2018' for the students of various colleges and for our college students on 08.09.18.
- ✓ Organized an Essay Competition (Tamil & English) for Bhawan Mahaveer birthday on 18.09.18 for colleges. The total number of participants for this event from our college was 144.

- ✓ Organized a debate competition for the students of our college on 27.09.18.

- ✓ Every Thursday, different Tamil activities such as Speech Competitions, Poetry Competitions and Debate Competitions are conducted by our College Paarivendar Students' Tamil Association for developing the Tamil language skills to the students. Totally, 20 events were conducted in last two years.

- ✓ Organized a one day tour for visit a Gallery of Pazhanthamizhar vazhviyal located at International institute of Tamil Studies for Executive members of Paarivendar student's Tamil association. Mr.K.shanmugam, Coordinator of Tamilmandram/VEC accompanied with the following 5 students in this tour.

- ✓ The Centre for Cultural Education, Training & Research, Tamilnadu conducted an Open Book Test on 07.10.17 in our College for enhancing the book reading habits of students. 94 students of our College participated in the competition.

- ✓ Organized an Inter College Tamil Competition 'Kanavea Vanthean-2017' for the students of various colleges and for our college students 0n 05.08.17.

- ✓ Organized an Inter College Tamil Competition 'Kanavea Vanthean-2018' for the students of various colleges and for our college students.

- ✓ Organized an Inter College Tamil Competition 'Kanavea Vanthean-2018' for the students of various colleges and for our college students on 14.09.2019. Mr.Nanji Sampath, Film actor and Literature speaker was the Chief Guest of this function.

- ✓ Organized a one day tour to the visit a Gallery of Pazhanthamizhar Vazhviyal located at the International institute of Tamil Studies for the first year of Paarivendar student's Tamil association on 31.07.2019.

- ✓ Organized a Staff Annual Day Function 0n 29.02.2019. Kalaimamnai, Film actor, and Tamil professor Mr. Ganasambandham was the Chief Guest of this function.

- ✓ Tamil Translation of Project Abstract was conducted on 16.03.17 for our College students to improve their Tamil technological skills.

- Paarivendhar Students' Tamil association celebrated Abdul Kalam's Birthday by conducting speech competition for students on 29.09.16.

Awards and Achievements:

- Received the "**Professor Rathana Award**" by Kaviyarasar Kalai Thamizh Sangam for the best education services.

- Honoured with "**DR.Radhakrishnan award**" in salem by Theepantham magazine for his service rendered for development of Tamil language in our college.

- Provided 100 % result in the subject of Data warehousing and Data mining.

- Provided above 90 % result in the mathematical paper on Theory of Computation and Resource Mangement Techniques.

- In my guidance and Training more number students were participated in state,Distirct and Zonal level Tamil Competitions and got number of Prizes and also participated in more number of TV shows like Sun TV, Vijay TV, Podhigai TV, Vendhar TV.

- **Chief Guest** of **Tamil Peravai inaugural function** organized by **Vidhya Sagar Women's College, Chengalpattu** on 30.07.2019. He inaugurated the function and released the Muthu Chitharal magazine and addressed the gathering.

- **Judge** for the Speech Competition event organized by the Dean of women students and the Forum of Loyola women students, **Loyola college,** Chennai on 18th Feb 2020.

- Paarivendhar Students' Tamil Mandram celebrated the 73rd Independence Day on 15.08.2019 and conducted Pattumandram on the topic Music songs made to make our society better? or spoil? Mr.K.Shanmugam, AP/CSE acted as the judge for this debate show.

Books Authored details

- **Authored a Book Title Problem Solving and Python Programming.**

- ✓ **Authored a Book Title Valai Vasal Varuga .**This book mainly focused on the Recent trends in Computer filed topics like Data analytics, BiG data, Data mining, Grid and Cloud computing, artificial intelligence etc.. written in the way of tamil language and easily understood the concepts for slow learners and tamilmedium studens. In the event of Padithathil Pidithathu on Peppers TV, the writer,poet and short film director Mr. Isaac shared the information about the book titled "Valai Vasal Varuga" written by our Principal Dr.B.Chidhambara Rajan and Mr.K.Shanmugam AP/CSE.

Television Participation:

Key speaker in the pattimandram conducted by SRM VEC, Paarivendhar Students' Tamil Mandram and Vendhar TV jointly organized a Pongal pattimandram on 6th January2020 on the topic (பண்டிகைகள்நமக்குகொண்டாட்டமா? திண்டாட்டமா?).Actor, Kalaimamani Mr.Rajesh was the judge for this debate.

Other Responsibilities:

- ✓ Maintenance Member of CSE Department

- ✓ Sports Coordinator of CSE Department

- ✓ Three years acted as Deputy Warden in SRM Vallaimmai Engineering Hostel.

- ✓ Warden of TRS B Block(Valliammai Engineering Hostel)