

## PROFILE

### PERSONAL

Name : Arun Shunmugam D  
Date of Joining : 21-05-2008  
Date of Birth : 01-06-1980  
Office Address : Associate Professor  
P.S.R Engineering College (Autonomous)  
Sevalpatti (po),  
Sivakasi – 626 140, Tamilnadu State  
Email : arunshunmugam@psr.edu.in  
Phone No.(Optional) :



### EDUCATIONAL QUALIFICATIONS (Starting from Graduation onwards):

| Degree           | Specialization                                  | Year of Passing | College                                   | Name of the University                                    |
|------------------|---|-----------------|---|---|
| Ph.D<br>Pursuing | Natural<br>Language<br>Processing               |                 | Anna University,<br>Chennai               | Anna University,<br>Chennai                               |
| M.E              | Computer and<br>Communicatio<br>n               | 2008            | Anna University,<br>Chennai               | Anna University,<br>Chennai.                              |
| B.E              | Electronics and<br>Communicatio<br>nEngineering | 2004            | F.X. Engineering<br>College, Tirunelveli. | Manonmaniyam<br>Sundaranar<br>University,<br>Tirunelveli. |

## ACADEMIC EXPERIENCE

| Sl. No. | From      | To        | No. of Years | Position / Title   | Institution / Industry Name  |
|---------|-----------|-----------|--------------|--|--|
| 1.      | Apr 2015  | Till Date | 6.10 Yrs     | Asso. Professor<br>in Computer<br>Science and<br>Engineering | P.S.R Engineering<br>College<br>(Autonomous),<br>Sivakasi.           |
| 2.      | Jan 2011  | Mar 2015  | 4.2 Yrs      | Asst Prof  | P.S.R Engineering<br>College<br>(Autonomous),<br>Sivakasi.           |
| 3.      | May 2008  | Dec 2010  | 2.6 Yrs      | Lecturer   | P.S.R Engineering<br>College<br>(Autonomous),<br>Sivakasi.           |
| 4.      | July 2004 | June2006  | 2 Yrs        | Lecturer/Asst Prof   | SCAD College of<br>Engineering and<br>Technology,<br>Cheranmahadevi. |

## RESEARCH

### Registration Details:

- (a) Category of registration : Part-Time  
(b) Month & Year of Admission : JUL & 2014  
(c) Whether provisional registration confirmed? : Yes / ~~No~~  
If yes, give reference No. and date

### SUPERVISOR DETAILS:

Name / Reference No. : Dr. Ruba Soundar K / 1840282  
Designation : Associate Professor  
Department : Department of Computer Science & Engineering  
Address : Mepco Schlenk Engineering College, Sivakasi, Virudhunagar  
Email / Mobile. : rubasoundar@yahoo.com / 9486123422  
Institute Code : 4496006-Computer Science and Engineering  
Mepco Schlenk Engineering College, Virudhunagar.

**Tentative title of the Research work:** "Sentiment Analysis and Synthesis Expressive Speech at the Sentence level"

## LIST OF PATENTS: 03

### Smart Irrigation System Using IoT

- Date: 19.11.2021
- CBR No: 54779
- Application No: 202141046457A
- Title: Smart Irrigation System Using IoT

### GHAT Road Alerting System

- Date: 19.11.2021
- CBR No: 54778
- Application No: 202141046456 A
- Title: GHAT Road Alerting System.

### Voter face Recognition as a verification system using radon transformation based electronics Voting.

- Date: 05.02.2019
- CBR No: 3692
- Reference No: E-2/318/2019-CHE
- Application No: 201941004424
- Title: Voter Face Recognition as a verification system using Radon Transformation based Electronic Voting

## PUBLICATIONS

<https://scholar.google.co.in/citations?user=vXuqzHYAAAAJ&hl=en>

### Google Scholar

h index : 3  
I10 index : 1  
No of citations: 23

### Journals:

- Arun Shunmugam D & Dr. Ruba Soundar (2021). “**Challenges of an Internet of Things-Based Health Monitoring System**”. Annals of R.S.C.B, ISSN: 1583-6258, Vol. 24, Issue 2, 2021, Pages. 1270 - 1277”.
- Arun Shunmugam D & Dr. Ruba Soundar (2021). “**Smart Irrigation System using IoT**”. International Journal of Innovative Research in Engineering and Multidisciplinary Physical Sciences (IJRMPS-2021), Volume 9 Issue 3, May 2021
- Arun Shunmugam D & S.Singaravelan (2016). An Empirical Investigation of word Clustering Techniques for Natural Language Understanding. International Conference on Engineering Science and Computing (IJESC), October 2016.
- Arun Shunmugam D & Mayuri (2014). Retinal Hemorrhage Detection in Fundus Image using Splat Approaches. International Journal for Scientific Research And Development (IJSRD) ISSN(Online)

Volume 2, Issue 2, April 2014.

- Arun Shunmugam D & Usha (2014). Genetic Approach based Recognizing Surgically Altered Face images for Real Time Security Application. International Journal for Scientific Research And Development (IJSRD) ISSN (Online) Volume 2, Issue 2, April 2014.
- Arun Shunmugam D & Gomathy (2013). Constrained Active Contour For Interactive Image Segmentation. International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, pp.498-502 498, Vol. 3, Issue 1, January -February 2013.
- Arun Shunmugam D & Kesevamoorthy (2011). Solving Traveling Salesman Problem by Modified Intelligent Water Drop Algorithm. International Conference on Emerging Technology Trends (ICETT) 2011 Proceedings published by International Journal of Computer Applications.

#### **Conferences:**

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#### **Conferences:**

- Arun Shunmugam D (2021). Presented paper in International Conference “**An IoT Approach for Patient Medical Health Records**” in International Conference on Emerging Trends in Engineering and Technology Research (ICETETR-2021) on 02.04.2021.
- Arun Shunmugam D (2018), Presented paper in International Conference “**Achieve Secure Scalable Privacy Protection Based Scheme in Cloud Services**” “**Recent Trends in Engineering Education (ICRTEE 2K18) of Science and Engineering (IJESC)**”, on 5<sup>th</sup> and 6<sup>th</sup> Oct 2018.
- Arun Shunmugam D (2018), Presented paper in International Conference **Dual Sentiment Analysis: Considering Two Sides of One Review**” “**Recent Trends in Engineering Education (ICRTEE 2K18) of Science and Engineering (IJESC)**”, ISBN:9788193786062 on 5<sup>th</sup> and 6<sup>th</sup> Oct 2018.
- Arun Shunmugam D (2017), Presented paper in **An Effective Segmentation of Real Time Traffic Alerts by Improving NLP Stickiness Scores**” International conference on "Advanced Computing and Communication Systems - ICACCS 2017". On Apr.2017.
- Arun Shunmugam D (2015), Presented paper in “**Effectual Image Haze And Noise Removal Using Pre And Post Processing**” International Conference, May 2015

#### **REVIEWER DETAILS:**

- Arun Shunmugam D (2021) act as a Reviewer for IJCDS.

#### **FDP/SEMINARS/CONFERENCES**

##### **Organized**

- National Level Technical Symposium in Fibandrome Feb 2019.
- National Technical Symposium in Techrona Feb 2020.
- National Technical Symposium in Techrona2.0 Nov 2021.
- National Conference on ‘RECANT’ in March 2017
- National Conference on ‘RECANT’ in March 2018

- National Conference on ‘RECANT’ in April 2020
- Organized more No .of Workshop, Guest Lecture, Hands on Training and seminars in last 5years Like 2017, 2018,2019,2020,2021.

**Attended:**

- Participated in the FDP Program on “**Foundation Program on ICT for Education**” by Sri Ramakrishna Polytechnic College association with IIC, Coimbatore on 28.01.2021 to 31.01.2021.
- Participated in the Workshop on “**Role of Deep Learning in Interdisciplinary Research**” by Mepco Schlenk Engineering College, Sivakasi on 19.02.2021 to 20.02.2021.
- Published a paper “**Challenges of an Internet of Things-Based Health Monitoring System**”, Annals of R.S.C.B., ISSN: 1583-6258, Vol. 24, Issue 2, 2021, Pages. 1270 - 1277”,
- Participated in the Short-term Course on “**Signal Processing and Machine Learning Techniques for Data-Driven IoT and Smartphone Health Monitoring**” by School of Electrical Sciences, Indian Institute of Technology Bhubaneswar, Odisha on 26.03.2021 to 30.03.2021.
- Presented paper in International Conference “**An IoT Approach for Patient Medical Health Records**” in International Conference on Emerging Trends in Engineering and Technology Research (ICETETR-2021) on 02.04.2021.
- Participated in the **AICTE - ISTE approved Orientation / Refresher Programme on “Machine Learning for All**” by KSRM College of Engineering, Kadapa, and Andhra Pradesh on 05.04.2021 to 10.04.2021.
- Participated in the **Online STTP on “NLP with Machine Learning”** at Mepco Schlenk Engineering College on 24.05.2021 to 28.05.2021.
- Published a paper “**Smart Irrigation System Using IoT**” International Journal of Innovative Research in Engineering and Multidisciplinary Physical Sciences (IJRMPS-2021), Volume 9 Issue 3, May 2021
- Participated in the AICTE Training And Learning (ATAL) Academy Online FDP on “**Industry Oriented FDP on Artificial Intelligence**” by MSME-Technology Development Centre (PPDC), Meerut on 07.06.2021 to 11.06.2021.
- Participated in the AICTE Training And Learning (ATAL) Academy Online FDP on “**Cyber Security Vulnerabilities & Safeguards**” by National Institute of Technical Teachers Training & Research Chandigarh on 12.07.2021 to 16.07.2021.
- Participated in the **National Level FDP on Business plan Development for Early stage of Startups** on "Data Sciences" by CMR Institute of Technology, Bengaluru on 23.08.21 to 9.09.21.
- Participated in the “**Inculcating Universal Human Values in Technical Education (UHV)**” organized by All India Council for Technical Education (AICTE) from 27-09-2021 to 1-10-2021.
- Participated in the “**Great Indian NIRF ranking 2021.**” organized by Micro College Coimbatore on 15.11.21 to 20.11.2021
- Participated in the **National Level Seminar on “Research Avenues in Deep Learning for NLP, Organized by National Engineering College, Kovilpatti** on 14.02.2020 to 15.02.20.
- Participated in the **Emerging Trends in “Data Migration and Wearable Computing aspects of IoE, organized by P.S.R. Engineering College, on 09-12-2019 to 14-12-2019.**
- Participated in the **Workshop on NPTEL organized by M.S. University, Tirunelveli** on 19.07.2019.

- Participated in the FDP on “**Introduction to Big Data Analytics**” organized by ICT Academy & P.S.R. Engineering College, Sevalpatti on 30.05.19-31.05.2019.
- Participated in the FDP on “**Data Mining**” organized by NPTEL on 27.04.2019.
- Participated in the National Seminar on “**Advanced Trends in Computer Science-19**” organized by Sasakathullah Appa College, Tirunelveli on 22.03.2019.
- Participated in the Workshop on “**E-Learning Resource- Google Class Room**” organized by P.S.R. Engineering College, Sevalpatti on 31.10.2018.
- Participated in the Faculty Development program on “**IoT and its Real Time Application**” organized by P.S.R. Engineering College, Sevalpatti on 14.09.18
- Participated in the Faculty Development program on “**Introduction to R Programming**” organized by G. vengadasmy Naidu College,, Kovilpatti on 22.08.18 to 23.08.18.
- Participated in the National Level Seminar on “**Research Avenues in Speckled Computing and Speck nets: A Futuristic pervasive Revolution**” organized by National Engineering College, Kovilpatti on 23.06.16 to 24.06.16.
- Participated in the National Seminar on “**Cloud Computing solutions for Genomic Analysis**”, organized by National Engineering College, Kovilpatti on 09.07.15 to 10.07.15.
- Participated in the Faculty Development Program on “**Research issues in Digital Image Processing**” organized by Mepco schlenk engineering college, Sivakasi on Mar 2012.
- Participated in the Faculty Development Program on “**DRDO sponsored National level Seminar on Research Challenges in Image Analysis and its Application**” organized by Einstein college of Engineering, Tirunelveli on Feb 2012.
- Participated in the Faculty Development Program on “**DRDO sponsored Workshop on Mobile and Pervasive Computing.**”. organized by Sri Vidhya College of Engineering, Virudhunagar ,on Sep 2011.
- Participated in the Workshop on “Installation of Free open source software” organized by Madras Institute of Technology, Chennai, on Mar 2011.
- Participated in the **Workshop on “Experiment oriented training on Free open source software” by Linux Expert System, organized by St. Xavier Catholic College of Engineering, Sunkankaddai, May 2011.**
- Participated in the Induction Programme on “Teaching skills and quality education” organized by P.S.R. Engineering College, Sevalpatti on Mar 2009.
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## **AWARDS AND ACHIEVEMENTS**

- I have received Appreciation award from AISHE 2015-16 for successfully upload the data in the AISHE Web portal.
- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jul-Dec 2016 Sem by IIT Madras.
- I have received Appreciation award from AISHE 2016-17 for successfully upload the data in the AISHE Web portal

- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jan-Jun 2017 Sem by IIT Madras.
- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jul-Dec 2017 Sem by IIT Madras.
- I have received Appreciation award from AISHE 2017-18 for successfully upload the data in the AISHE Web portal
- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jan-Jun 2018 Sem by IIT Madras.
- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jul-Dec 2018 Sem by IIT Madras
- I have received Appreciation award from AISHE 2018-19 for successfully upload the data in the AISHE Web portal
- I have appreciated **NPTEL SPOC** for the Swayam-Nptel Local Chapter in the period of Jan-Apr2019 Sem by IIT Madras.
- I have produced centum **result** in **12CS71 –Computer Graphics** in the year 2019 and I got Cash award in 2019 college day function on 30.03.2019 at P.S.R. Engineering College, Sevalpatti.
- I have completed NPTEL online Course titled “**DATA MINING**” offered by NPTEL and Swayam at IIT Madras Feb-Apr 2019.

## **LECTURES DELIVERED**

- **Hands-on training on MS- office** for Non-Teaching Staff in P.S.R engineering college, Jan 2014.
- **Hands-on Training on Tips and tricks of MS-Excel** for Mechanical Department in P.S.R. Engineering College, 17.01.2018 to 18.01.2018.
- **Lecture on ‘R Programming’** at CSE, P.S.R Engg. College, Sivakasi, June 2017.
- **Lecture on “Android Studio”**, at CSE, P.S.R Engg. College, Sivakasi, July 2018.
- **Hands on Training on Tips and Tricks** of MS- Office for Teaching Staff in P.S.R. Engineering College Sivakasi , Nov 2018.

## **ADDITIONAL RESPONSIBILITIES**

- **Coordinator** for Prepared **Compliance Report Preparation** for AICTE New Delhi in the year 2009 onwards.
- **Coordinator** for **ISTE Student Chapter**. More than 800 students were member in this forum. From this forum lot of program are organized for students to develop their skills.
- **Coordinator** for conducting **NIIT national level Aptitude test** in our college campus more than 50 students were participated. From this Group 20 students got merit awards.

- **Coordinator** for conducting **TCS-iON online competitive Exams (Like RRB, IBPS ,etc.** in our college campus, more than 35 Exams are conducted.
- **Nodal officer** for Prepared **All India Survey for Higher Education (AISHE)** for AICTE New Delhi in during the year 2011-2017.
- **Co-coordinator** for Prepared **National Institute of Ranking Framework (NIRF)** for AICTE New Delhi in during the year 2015-2018.
- I am act as a **Single Point of Contact (SPOC)** for conducting NPTEL Exam in the year of 2016 onwards.
- Nodal officer for prepare **National Higher Education for Resource Centre (NHERC)** in the year of 2019 onwards.
- I am a coordinator for **Computer Maintenance Cell (CMC)** in the year of 2011 onwards.
- I am act as **IIT-Madras Institute Representative** for **NPTEL Examination** since Nov 2019 onwards.
- I am a member of Covid-19 Cell in the year of 2021 onwards.

**MEMBERSHIP OF PROFESSIONAL BODIES, SOCIETIES(IEEE,ISTE, IE, ETC):**

| <b>NAME OF BODY</b> | <b>MEMBERSHIP CATEGORY</b> | <b>PERIOD/YEAR</b> |
|---------------------|----------------------------|--------------------|
| <b>ISTE</b>         | <b>Life Member</b>         | <b>2010</b>        |

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