

PROFILE

SIVARANJANI.A

Teaching Fellow

Department of CSE

University College of Engineering, Panruti.

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Working Experience: (8 years)

- ❖ Working as a Teaching Fellow in the Department of Computer Science Engineering at University College of Engineering, Panruti Campus, Anna University from Aug 2013 to till.
- ❖ Worked as a Assistant professor in the Department of Computer Science Engineering at Manakula Vinayagar Institute of Technology, Puducherry from 2012 to 2013.
- ❖ Worked as a **Project Intern** at Wipro Technologies. Duration-Sept 2011 to May 2012.

Academics:

- ❖ Pursing **Ph.D** in Information and Communication Engineering at AnnaUniversity, Chennai, (Registered 2016).
- ❖ Completed **M.Tech**, CSE at Sastra University, Tanjaore secured CGPA 7.71, First class with Distinction, Duration: 2010-2012.
- ❖ Completed **B.E CSE** at Annamalai University, chidambaram secured CGPA 8.36, First class with Distinction, Duration: 2005-2009.

Specialized area:

- Python programming
- Machine Learning
- Image processing
- Deep Learning
- Computer vision
- Artificial Intelligence

Subjects Handled

Labs Handled

- | | |
|------------------------------------------------|------------------------------------------------|
| 1.Data Structures (3) | 1. Data Structures lab (3) |
| 2.Data Structures And Algorithm (2) | 2. Data Structures And Algorithm lab (1) |
| 3.Design And Analysis of Algorithm (4) | 3. Microprocessor& Microcontroller lab (1) |
| 4.Programming and Data Structure (3) | 4. Programming and Data Structure lab (3) |
| 5.C-Programming (3) | 5. OOPS lab (3) |
| 6.OOPS (3) | 6. Computer Programming lab (3) |
| 7.E-Business (1) | 7. Object Oriented Analysis and Design (3) |
| 8.Computer Programming (3) | 8. Computer Networks (2) |
| 9.Principles of Management (2) | 9. Internet Programming (1) |
| 10. Computer Architecture (1) | 10. Problem Solving and Python Programming (4) |
| 11. Computer Networks (2) | |
| 12. Microprocessor& Microcontroller (1) | |
| 13. Internet Programming (1) | |
| 14. Artificial Intelligence (2) | |
| 15. Object Oriented Analysis and Design (1) | |
| 16. Problem Solving and Python Programming (2) | |
| 17. Digital Image processing (3) | |

Department Activities

- ❖ Organised “**Tree planting**” function and “**Planted 101 trees at UCEP**” on **12th July 2017**.
- ❖ Organised the program named “**Save Water and Recycling -Exhibition**” on the memorial of Dr. APJ. Abdul Kalam, 2017.
- ❖ Organised the program named “**Science Exhibition**” on the memorial of Dr. APJ. Abdul Kalam, August 1, 2018.
- ❖ Appointed as CSE **Department Librarian** since 2015- till now.
- ❖ Appointed as a CSE **Department Treasurer** since from 2017-2019.
- ❖ Acted as an **In-charge** for “**Student Notice board – Activity**” (2018).
- ❖ As a **Lab In-charge** for “**Multimedia Lab**”.

Other Activities

- ❖ Appointed as a **Tutor** for the ladies hostel at Manakula Vinayagar Institute of Technology, 2012-2013.
- ❖ As a **Jury** for the ISTE Sponsored 4th National Conference on Research and Development in Science, Engineering and Technology (NCRDSET’18), 2018.
- ❖ **Reviewer** for International journal of ‘Engineering Applications of Artificial Intelligence’
- ❖ Owner of a **YOUTUBE CHANNEL** named “**SSSN EASY LEARNING**” from **2017**.
- ❖ Shortlisted for the 2nd level presentation for “**DST -Department of science and Technology**”, **Division-KIRAN, WOS-B (S & T Intervention for Societal Benefit- 2019)**.

WorkShop/Seminars/FDP/Training Programs: (17)

1. Completed and Participated in **“The Guinness world Record Event –Most users take an online computer programming lesson in 24 hours”**, 2021.
2. Short term course on **“Emerging Technological Challenges in Electric Vehicle (EV) System”**, sponsored by NaMPET, organized by EEE of Thiagarajar College of Engineering, Madurai, 2020 (3 days).
3. One week webinar on **“Machine Learning with python”**, organized by CSE of Annamalai university, 2020 (7 days).
4. One Day Webinar on **“Introduction to Tableau”** organized by UCEP, 2020.
5. One day Webinar on **“ Emerging Technologies for employability for engineering students”**, organized by Agimus technologies, association with ‘Christiani Shapline’, Indo- German Company and CAPS LOCK Singapore 2020.
6. One day Webinar on **“Road- map to futuristic technologies”**, organized by CSE, Anna university regional campus Madurai, 2020.
7. One day National Webinar on **“Passion towards Intellectual property rights”**, organized by IIC UCE,Nagarcoil, 2020.
8. One day workshop on **“Gender Sensitisation –Ideal work place Behavior with regard to Act”**, organized by ‘POSH and CEW’, 2018.
9. Two day seminar on **“Indian Council of Medical Research”**, organized by Dept of IT held at IFET college of Engineering, 2017 (2-days).
10. Two day National workshop on **“Machine learning using Matlab”**, organized by SRM University in association with IET, OXFORD UNIVERSITY PRESS, 2016 (2-days).
11. Two weeks **ISTE STTP on “Introduction To Design of Algorithms”** organized by IIT Karaghpur , National Mission on Education through ICT (MHRD, Govt. of India) held at Arun I Engineering College ,2015 (14 days).
12. **AICTE Sponsored** Two day national seminar on **“Current Scenario: Open Source Technologies”**, organized by Manakula Vinayagar Institute of Technology, 2013.
13. One day workshop on **“Entrepreneurship Management”** organized by Dr.Pauls Engineering College held at Pondicherry Engineering College, 2013.
14. Two day National level Seminar on **“Advancement in Computer Technology”** organized by Dept of CSE held at University College of Engineering Panruti 2012.
15. Two day workshop on **“Free Open Source Software”** organized by Dept of CSE held at University College of Engineering Panruti, 2011.
16. Three month course for **“Diploma in PC Tech”** at Computer Network Neyveli (CNN) 2009.
17. **In-plant training** in **“Material Management Complex”** Neyveli Lignite Corporation Ltd, Neyveli 2007.

Publications (21)

Journals (7):

1. **A. Sivaranjani**, S. Senthilrani, “MVCNN-CASHNET: Multi-View Convolution Neural Network for classifying WW, SW, Split Cashews”, Solid State Technology, 64(2), 2021.
2. **A. Sivaranjani**, S. Senthilrani, B. Ashokkumar, A. Senthil Murugan, “An Overview of Various Computer Vision based Grading System for Various Agricultural Products” accepted in, The Journal of Horticultural Science & Biotechnology 2021.
3. **A.Sivaranjani**, S.Senthilrani, P.Sri Gayathri Paaraa, V.Manikandan, S.Umamaheswari, “Jackfruit yield estimation using deep learning techniques in image processing”, International Journal of Science, Engineering and Technology (IJSET), ISSN(O): 2348-4098 – ISSN(P): 2395-4752, 2021.
4. A.Senthilmurugan, K.Suganya Devi, **A.Sivaranjani**, P,Srinivasan, “ A study on various methods used for video summarization and moving object detection for video surveillance applications”, International journal of Multimedia Tools Applications, **Springer**, ISSN: 1380-7501 (Print) 1573-7721 (Online) 2018.
5. **A.Sivaranjani**, A.Senthil Murugan, “A Review On IDS (Interactive Display On Any Surface) And Various Business Applications”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, 2016.
6. **A.Sivaranjani**, Vignesh Kumar K, Sathya S, Santhi B “Automatic Patient Monitoring System Using Scatternet For Critical Care”, Journal of Theoretical and Applied Information Technology, indexed by Scopus, ISSN: 1992-8645, 2012.
7. Sathya S, **A.Sivaranjani**, santhi B, “Survey On Various UI Design Approaches”, Journal of Theoretical and Applied Information Technology, indexed by Scopus, ISSN: 1992-8645, 2012.

International Conferences: (14)

1. A. Senthil Murugan, S. Manoj Kumar, S. Senthilrani, **A. Sivaranjani**, “Computer Vision-Based Vehicle Detection and Tracking”, Advances in Automation, Signal Processing, Instrumentation, and Control, Springer Singapore, 2021.
2. **A. Sivaranjani**, S. Senthilrani, B. Ashokkumar, A. Senthil Murugan, “Computer Vision Based Method for Counting Various Food Products with Different Shapes and Size” Proceedings of International Web Conference on Innovations in Communication and Computing, ICICC '20, 2020.
3. **A.Sivaranjani**, Dr.S.Senthilrani, Dr.B.Ashokumar, A.SenthilMurugan, “CashNet-15:An Optimized Cashew Nut Grading Using Deep CNN and Data Augmentation”, 2nd IEEE International Conference on Systems, Computation, Automation and Networking, ICSCAN., 2019.
4. **A.Sivaranjani**, Dr.S.Senthilrani, A.SenthilMurugan, K.Lokesh, R.Nandha Kumar, M.Arunagiri “Recognition And Classification of Food Products Using Multi-Class SVM” National Conference on “Deep Learning - Medical Applications”, 2019.
5. **A.Sivaranjani**, Dr.S.Senthilrani, A.SenthilMurugan S.Nandhini, M.Nithya, P.Anitha, “Review On Object Counting Methods For Various Food Products”, National conference on Technical Advancement in Computers and Communication”, 2019.

6. A.SenthilMurugan, S.ManojKumar, **A.Sivaranjani**, P.Abinaya, S.Sandhya, R.Rajapandiyan “Abnormal Event Detection In ATM Using Multi-Class SVM”, National Conference on “Deep Learning - Medical Applications”, 2019.
7. A.SenthilMurugan, S.ManojKumar, **A.Sivaranjani**, Kowsalya.R, Manimegalai.P, Sowmiya.A Video Summarization for Surveillance Video Using Keyframe Extraction, National Conference on “Deep Learning - Medical Applications”, 2019.
8. **A.Sivaranjani**, Dr.S.Senthilrani, Dr.B.Ashokumar, A.SenthilMurugan, “An Improvised Algorithm For Computer Vision Based Cashew Grading System Using Deep CNN”, IEEE International Conference on Systems, Computation, Automation and Networking, ICSCAN., 2018.
9. **A.Sivaranjani**, Dr.K.Suganya Devi, A.Senthil Murugan, S.Akshaya, K.Nithya “A Multimodal Fingerprint Fusion Approach To Enhance Security And Accuracy”, International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, IC3DIET-18., 2018.
10. **A.Sivaranjani**, Dr.K.Suganya Devi, A.Senthil Murugan, P.Dhivya, S.Kousalya “Efficient Approach for distorted fingerprint authentication”, International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, IC3DIET-18., 2018.
11. A.SenthilMurugan, K.SuganyaDevi, **A.Sivaranjani**, P.Saranraj, S.Thirunavukarasu, “Visual Secure System Using Single Image Random Dot Stereograms” International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, IC3DIET-18., 2018.
12. A.SenthilMurugan, K.SuganyaDevi, **A.Sivaranjani**, A.Praisya, A.Manimala, “MRF-Multifeature Fusion for Spectral-Based Classification of Remote Sensing Images”, International Conference on Computing, Communication and Drastic Innovations in Energy Thrive, IC3DIET-18., 2018.
13. K.Suganya Devi, **A.Sivaranjani**, A.Senthilmurugan, P,Srinivasan, “Development Of Interactive Fashion Design Supprt System: Using Ids (Interactive Display On Any Surface) - A Case Study", International Conference on Advanced Computing and Communication Systems (ICACCS -2017), IEEE Explore, 2017, Coimbatore, 2017.
14. **Sivaranjani.A**, Ilamathi, Vinodhini Pugazh, Maheswari Krishnan, “Assimilating Multimodel Fusion Approach To Make Preferment in PI(Person Identification) And IP (Identity Prediction) , International Conference on Advances in Engineering and Technology , ICART 2013.