

**R. Sakthi Prabha**

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10 Years of experience in teaching at reputed university. Highly motivated innovative person with a proven track record. Currently pursuing Ph.D in Medical Image Processing at Sathyabama Institute of Science and Technology

PROFILE SUMMARY

- **Published a Patent** entitled “Novel Device for Diagnosing, Monitoring and Healing for Brain Diseases” during 26th Aug 2022
- **Patent granted** entitled “Machine learning based stress detection device” on 22nd Mar 2023
- **Published** a Book entitled “Foundation of Digital Image Processing” during Jan 2022
- **Published** a Monograph “Fundamentals of semiconductors” LAMBERT Academic publishing, Oct-2018
- **Published** more than 14 papers indexed in Scopus/Web of Science with a h index-3
- **Published** various other research papers which is indexed in other peer reviewed International/National databases
- **Received Best Faculty Award** for outstanding contribution in Teaching and Research during January 2023
- Received **Best Revolutionist Award** for publishing research manuscript.
- Delivered more than **10 video lectures** on various topics.
- **Top Performing Mentor Award** for the NPTEL online course

EDUCATION

- **M.E in Embedded system**, First class with Distinction from Sathyabama University from 2011-2013
- First class **B.E in Electronics & Communication Engineering** from Francis Xavier Engineering College, Anna University, Tirunelveli from 2007-2011

RESEARCH INTEREST

- Medical Image processing
- Soft Computing Techniques

AWARDS AND RECOGNITIONS

1. Received “Best Revolutionist Award” for the published research manuscript, June 2018
2. Received a Top Performing Mentor Award for the NPTEL online course on “Introduction to Internet of Things” April 2019.
3. Given video lectures on various topics, ”Semiconductors”, “Transistors” “Introduction to Embedded system” and “Digital Logic circuits”

CERTIFICATIONS

1. Certified with **ELITE Position** for various NPTEL Courses like Digital Image Processing and satellite communication, Embedded system Design, Digital Image Processing
2. Certified with various other organization courses such as ATAL Academy, GIAN, NITTTR

PUBLICATIONS (Only Scopus and Wos indexed publications are listed)

1. **R. Sakthi Prabha**, M. Vadivel, “Brain Tumor Stages Prediction using FMS-DLNN Classifier and Automatic RPO-RG Segmentation”, SSRG International Journal of Electrical and Electronics Engineering Vol 10 Issue 2, 110-121, February 2023
2. **Sakthi Prabha, R.**, Devi Varaprasad, B., Sai theja, B. “Location monitoring system for maritime security using RSSI technology”, International Journal of Electrical Engineering and Technology, 11(2), pp. 204-210, 2020
3. **R.Sakthi Prabha**, “Channel aware reputation system with adaptive detection using AODV protocol during forward attack in wireless sensor network” IOP Conference Series: Materials Science and Engineering 561 (2019) 012121 DOI:10.1088/1757-899X/561/1/012121
4. **Sakthi Prabha R**, “Design of Meta Material Inspired Series and Corporate Feed Network Antenna” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-4, February 2020,pg.no- 3061-3064
5. **Sakthi Prabha R**, “Automatic Physical Access Control System Based on Biometric Identification by Wavelet Transform Algorithm”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7 Issue-6, March 2019
6. **R.Sakthi prabha**, “BIECC- an efficient cryptographic scheme for authenticate false data injection over wireless sensor networks” International Journal of Applied Engineering Research Vol 10, No 2 (2015) pp. 3557-3565, ISSN 0973-4562
7. **Sakthi Prabha, R** " Real time safety system for women" , ARPN Journal of Engineering and Applied Sciences Vol. 13, No. 7, pg.no-2697-2701, April 2018
8. Priyanka M, Anisha S, **Sakthi Prabha R**. “ VLSI Design For A Pso-Optimized Real-Time Fault-Tolerant task allocation algorithm in Wireless Sensor Network,” ARPN Journal of Engineering and Applied Sciences Vol. 11, no. 13, July 2016 ISSN 1819-6608

9. Yashvanth kumar, Vara Prasad and **Sakthi Prabha R.** “2-D Object Recognition Using Surveillance Video Processing On Daubechies Wavelet Decomposition” ARPN Journal of Engineering and Applied Sciences Vol. 11, no. 13, July 2016 ISSN 1819-6608
10. Annammal S, **Sakthi prabha R.** “A Survey Based On Cloth Pattern Recognition for Optically Defective Humanity”, Research Journal of Pharmaceutical, Biological and Chemical Sciences, Nov- Dec 2015, RJPBCS 6(6) Page No. 1070-1075,ISSN: 0975-8585
11. Annammal S, **Sakthi prabha R.** “Recognition Of Cloth Pattern for Optical Defective Personalities”, ARPN Journal of Engineering and Applied Sciences VOL. 11, NO. 9, MAY 2016
12. Chitra, P., Sumathi, M., **Sakthi Prabha, R.**, Sahaya Anselin Nisha, A., Bernatin, T. “Gloves gesture recognition”, International Journal of Scientific and Technology Research,9(2), pp. 418-423, 2020
13. Madhuri, G., Anjali, K., **Sakthi Prabha, R.** “Transmission of data, audio and text signal using Li-fi technology”, IOP Conference Series: Materials Science and Engineering, 872(1), 012010, 2020
14. Apoorv, S., Kumar Bhowmick, S., **Sakthi Prabha, R.**” Indian sign language interpreter using image processing and machine learning”, IOP Conference Series: Materials Science and Engineering, 872(1), 012026, 2020

OTHERS (National/International Journal)

1. Jayasri S, **Sakthi Prabha, R** " Survey on pancreatic tumor segmentation", International Journal of Engineering Research and Technology Vol.7, Issue. 04, pg.no-256-259, April 2018
2. Naga Venkatesh K, Raghu Vamsi Y, **Sakthi Prabha, R** " A Review On Channel Aware Reputation System With Adaptive Detection For Attack-Tolerant Data Forwarding", International Journal of Engineering Research and Technology Vol.7, Issue. 04, April 2018

FDP/WEBINARS/WORKSHOPS ORGANIZED

- Organized the event Circuit Debugging conducted by Dept of ECE in association with IEI Student chapter on 7th March 2023
- Organized a Guest Talk on Professional Ethics and values on 11th Jan 2023
- Organized a workshop on the topic “Role of Matlab Programming in Electronics” during 29-30th January 2020]
- Organized an online webinar on Covid 19 :Financial Planning for Working Professionals Do’s and Don’ts on 28th May 2020
- Organized an online webinar on AWS and Cloud Computing on 30th May 2020
- Organized an online webinar on Internet of Things on 9th June 2020
- Organized a 5 days online refresher Programme on Artificial Intelligence in Electronics (1st -5th Jun 2020) in association with SATHYABAMA ISTE Student Chapter‘
- Organized a Six Days FDP on Artificial Intelligence during 15th -20th June 2020
- Organized a Six Days Lecture Series (ECE’S LS#05) during 22nd – 27th June 2020

- Organized a Six Days Lecture Series (ECE'S LS#06) during 29th – 04th July 2020
- Organized AICTE Funded skill Development Programme on Embedded System and IOT during 19th – 24th Oct 2020
- Organized a two day National conference on Emerging Trends in VLSI, Embedded and Nano Technologies at Sathyabama University during 5th -6th Apr 2018
- Organized a two day National conference on Emerging Trends in VLSI, Embedded and Nano Technologies at Sathyabama University during 19th -20th Apr 2017

RESOURCE PERSON

- Acted as a Resource person for a Skill Development course on Core Competencies in Electron Devices organized during 7th – 11th Feb 2023
- Acted as a Resource person for a Technical skill Development Program on Analog and Digital Electronics organized during 8th– 16th July 2022

COURSES UNDERGONE

- Attended a NPTEL and FDP online course on “Digital Image Processing and satellite communication” and secured ELITE position, Oct 2018
- Attended a GIAN course on “Biomedical Imaging Advanced FLIM-FRET microscopy Techniques for cancer cellular Imaging” in Anna University, Dec 2018
- Attended a FDP on “Data Acquisition and the Industrial Internet of Things”, Dec 2018
- Attended a NPTEL online course “Digital Image Processing” and secured ELITE position, Aug 2017
- Attended a NPTEL online course on “ Embedded system Design” and secured ELITE position, Apr 2018
- Attended a FDP on “Matlab programming” in NITTTR Chennai, Feb 2018
- Six Days FDP on Machine Learning in Image and computer vision Applications,, (25.11.2019 to 30.11.2019) NIT Warangal
- Five days FDP on Spoken Tutorial Project Arduino, (20.04.2020-24.04.2020) IIT Bombay
- Five Days FDP on Spoken Tutorial Project Scilab,(20.04.2020-24.04.2020) IIT Bombay
- Five Days FDP on Spoken Tutorial Project on esim, (04.05.2020-08.05.2020) IIT Bombay
- Six Days FDP on Courseware creation using MOODLE, Sathyabama Institute of Science and Technology (24.02.2020 to 29.02.2020)
- Ten Days Online FDP on “Lab view Programming”, Sathyabama Institute of Science and Technology (07.05.2020 – 16.05.2020)

- NPTEL Online course on Introduction to Internet of Things (**Mentor**) (July-Dec 2019) IIT, Kharagpur,
- NPTEL Online Course on Cloud Computing (**Mentor**), (24.02.2020 to 17.04.2020) (ongoing) IIT Kharagpur

SHORT TERM COURSES ATTENDED

- Five Days Short term course on Neural Network and CNN, (20.04.2020 to 24.04.2020) NITTTR Chandigarh
- Five Days Short term course on Internet of Things, (15.04.2020 to 19.04.2020) NITTTR Chandigarh
- Five Days Short term course on Latest Wireless and Computing Technologies, (14.04.2020 to 18.04.2020) NITTTR Chandigarh
- Five Days Short term course on 8051 and its Applications, (18.05.2020 to 22.05.2020) NITTTR Chandigarh
- Five Days Short term course on Research Oriented Project Work, (11.05.2020 to 15.05.2020) NITTTR Chandigarh
- Five Days Short term course on Outcome Based Curriculum, (25.05.2020 to 29.05.2020) NITTTR, Chandigarh

COURSES HANDLED

- Embedded System
- Electronic Devices
- Microprocessor and Microcontroller
- Digital Logic Circuits
- Computer Networks
- Wireless communication
- Digital Signal Processing
- RTOS Programming
- Network Programming