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| **Name :S.Susila Sakthy** | **Photo**  |
| **Designation:** | **AP/II** |
| **Qualification :** | **M.E,** |
| **Area of Specialization :** | **Embedded System** |
| **Experience :** | **Teaching : 12.5 Yrs.** |
| | **Industry : Nil** |
| **No. of workshop / Conferences / FDP attended :** | **40** |
| **Publication :** | **Journal**<br>           **National : -3**<br>           **International : 11** |
| | **Conference**<br>           **National : 14**<br>           **International : -12** |
| **Research Guidance : -** | **Not Yet** |
| **Membership:** | **IAENG,IFERP,IRED** |
| **Achievements:** | **1.Produced 100% pass percentage in various subjects**<br><br>**2. Elite Certified in NPTEL Exam in WSN**<br>**3. Elite Silver in NPTEL Exam in IOT** |

### Workshop / Conferences / FDP attended

- Attended FDP on "Wireless sensor networks and the Internet of things - A research perspective" from 10th to 12th December 2018 at S A Engineering College.
- Attended FDP on Introduction to Mobile App development conducted by ICT Academy on 11-19-2018 to 11-20-2018 at Vels Institute of Science, Technology & Advanced Studies(VISTAS)
- Attended 5 Days train the Trainer program on Security Infrastructure Specialist in association with IT-ITes Sector Skills Council NASSCOM
- Attened 5 Days FDP on Cloud Security and Block chain Technology on 22.04.2019-26.04.2019 at Sri Sairam Engineering College.
- Participated Seminar on "**Embedded Systems in Automotive and Industrial Automation**"Conducted by Software Technology Park of India and EFI, Tidal Park, Chennai.
- Attended workshop on "**Genetic Algorithm in Engineering Optimization**" at Arulmigu Kalasalingam College of Engineering, Krishnan Koil.
- Attended workshop on **"Wireless communication"** Conducted at Arulmigu Kalasalingam College of Engineering, Krishnan Koil.
- Attended Work shop on **"Recent trends in Multimedia**" Conducted at SSN College of Engineering, Chennai.
- Participated FDP on " **IBM-DB2 and IBM-Websphere**"Conducted by IBM Academic Initiative
- Participated One day seminar on "*Data Structures Through C*" Conducted by Pearson at Loyola College
- Participated National Seminar on "*Recent Trends in service oriented Architecture"Sponsored by CSIR* Sri Sairam Engineering College
- Participated National Seminar on "*Research methodologies in Next Generation Wireless Network Using OPNET* "Sponsored By Ministry of Communications and Information Technology at Sri Sairam Engineering College
- Attended SDP on" *Mobile Networks*" sponsored by AICTE at Sri Sairam Engineering College
- Attended SDP on"*Recent Developments in Computing"* sponsored by AICTE at Sri Sairam Engineering College.
- Tutorial sessions for **"ADVANCED COMPUTING TECHNOLOGIES"** conducted during 2015 IEEE International Conference on Computing and Communication Technologies (ICCCT'15) at Sri Sairam Engineering College.

- FDP on **Cloud Computing & Bigdata** from 8th to 9th December 2014 at Sri Sairam Engineering College.
- FDP on **"Software Testing"** held on 14th November 2014 at TCS, Siruseri Chennai.

- Tutorial sessions on **"Cloud Computing & Semantic Web"** in the International Conference on Information, Systems and Computing - ICISC'13 during Jan 4th & 5th at Sri Sairam Engineering College.

- Tutorial sessions on **"INTERNET OF THINGS"** in the 2017 Second International Conference on Computing and Communication Technologies (ICCCT'17) held on 23/02/17 & 24/02/17 at Sri Sairam Engineering College
- Attended FDP on "Wireless Sensor Networks and Internet of things-A Research Perspective" in SA Engineering College,on 10-12,2018
- participated in 2 Day Faculty Development Program on Introduction to Mobile App development conducted by ICT Academy on 19 Nov 2018 to 20 Nov 2018 at Vels Institute of Science, Technology & Advanced Studies(VISTAS)

- Attended Atal FDP on "Artificial Intelligence" from 2020-12-7 to 2020-12-11 at Sri Sairam Engineering College.
- Attended Atal  FDP on "Internet of Things (IoT)" from 2021-2-1 to 2021-2-5 at Mizoram University.
- Attended Atal  FDP on "Internet of Things (IoT)" from 2020-11- 30 to 2020-12-4 at Sri Sairam Engineering College.
- Attended Atal   FDP on "Artificial Intelligence" from 2021-1-4 to 2021-1-8 at PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY.
- Participated in the Research Scholars' Colloquium (RSC'20) conducted during 23rd & 24th October,  2020 SSN Engineering College.
- Participated in 12 Hours of Faculty Development Program on Fundamentals of AI (Online LIVE FDP) conducted by ICT Academy on 07 Sep 2020 to 12 Sep 2020
- Attended  5 days FDP on "Research perspective in machine Intelligence and Computing" in Sri sairam  Institute of technology on 27-31 october 2020.
- Attended 4 days FDP on "Auto-CAD Hands on Training " organized by SAIRAM Robotics CLUB on 3,4,10,11 December 2020.
- Attended 5 Days FDP on "Data Structure ",organized by Velammal Engineering college,in association with CSI from 25-29 may 2020

## Publication Details
## International Journal

| S.No. | Author | Title | Journal Name/ Proceedings | Page No. | Volume No. | Issue No. | ISSN Number | Year | Index |
|---|---|---|---|---|---|---|---|---|---|
| 1 | S.Susila Sakthy Dr.S.Bose | Dynamic Model Node Scheduling Algorithm Along with OBSP Technique to Schedule the Node in the Sensitive Cluster Region in the WSN | Wireless Personal Communication | 265-279 | **144** | **1** | - | 2020 | **SCI** |
| 2. | Susila Sakthy S.; T. Ragupathy; Kishore G | Smart Payment and Billing Management System | IEEE-Xplore Digital Library | - | - | - | - | 2020 | **Scopus Indexed** |
| 3 | S.Susila Sakthy T. Udayalakshmi G. Kalaiselvi M. Preethi | Detection of Diabetic Retinopathy (DR) Using Machine Learning | Test Engineering and Management | 14015-14018 | - | - | ISSN: 0193-4120 | 2020 | **UGC** |
| 4 | S Susila Sakthy, S Abirami, M Deepika | Fault Detection of Power Cable & Monitoring Power Supply Unit | Test Engineering and Management | 13877-13879 | | | **ISSN: 0193-4120** | 2020 | **UGC** |
| 5 | P.Padma, V.Narmadha S.Susilasakthy L.Arthi4 | Enhanced Data Protection Using Honey Encryption And Binocular VCS | Studies in Indian Place Names | | **40** | **3** | **ISSN: 2394-3114** | 2020 | **UGC care** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **6** | S.Susila Sakthy, P.Padma ,S.Anitha Jebamani ,Gowrishanger Ramoney | Intelligent Power Theft Control System Using Digital Energy Meter | Journal of Gujarat Researcch | | **21** | **17** | **ISSN: 0374 - 8588** | **201 9** | **UGC care** |
| **7** | Ms.J.Aruna Jasmine, Ms.S.Susila Sakthy, Ms.T.P.Rani Mr.Jer Lang Hong | S mart Bus ticket system using QR code in android application | Journal of Gujarat Researcch society | | **21** | **17** | **ISSN: 0374 - 8588** | **201 9** | **UGC** |
| **8** | S.Susila Sakthy | Smart Energy Digital Meter And Power Theft Control Using Arduino | Journal of Emerging Technologies and Innovative Research | 240-243 | | | (ISSN-2349-5162 | 201 9 | **UGC** |
| **9** | S Susila Sakthy S. Priyanka,T. Udaya Lakshmi; | Web –Based Street Light System | IEEE-Xplore Digital Library | | | | | **201 9** | **Scopus Indexe d** |
| **10** | S.Susila Sakthy Dr.S.Bose | Optimising residual energy transmission head with SNR value in multiple clusters | Wireless Personal Communication | 107–120 | 108 | 1 | - | 201 9 | **SCI** |
| **11** | S.Susila Sakthy C.Vignesh Gopi C.Ramachandr an, M.Srinivasa Raghavan | Community Hub | International Journal of Innovations and Advancement in ComputerScien ce | 204 | 6 | 6 | 2347-8616 | 201 7 | |
| 12 | S.Susila Sakthy Dr.S.Bose Ajitha .X Anitha .K.M | Signal to Noise ratio Based Clustering Approach in WSn | IEEE-Xplore Digital Library | - | - | - | - | **201 7** | **Scopus Indexe d** |
| 13 | S.Susila Sakthy D.Saranya | Intelligent Load Balance Clustering in | International Journal of Latest trends in | 52-56 | Special Issue | | 2278-621X | 201 6 | - |

| | | Wireless Sensor Networks | Science and Technology | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 14 | S.Susila Sakthy | Systematic Review on Clustering Protocal in Wireless Sensor Networks: *A* Survey | International Journal of Science and Innovative Engineering | | 1 | - | 978-81-904760-5-8. | 2014 | - |

## Paper presented in International Conferences

| S.No. | Author | Title | Conference Name | Year |
|---|---|---|---|---|
| 1 | Susila Sakthy S.;T. Ragupathy;Kishore G | Smart Payment and Billing Management System | 2020 ,ICPECTS,2020,IEEE CONFERENCE | **2020** |
| 2 | S Susila Sakthy S. Priyanka,T. Udaya Lakshmi; | Web based Street light System | 2019 Third International Conference on Computing and Communication Technologies (ICCCT'19) on 21rd and 21th February, 2019 in the Department of Information Technology, Sri Sai Ram Engineering College, Chennai | 2019 |
| 3 | S.Susila Sakthy Tamilarasi.T Vaishnavi.R Jenani.M | Smart Energy Digital Meter And Power Theft Control Using Arduino | 2019 Third International Conference on Computing and Communication Technologies (ICCCT'19) on 21rd and 21th February, 2019 in the Department of Information Technology, Sri Sai Ram Engineering College, Chennai | 2019 |
| 4 | S.Susila Sakthy Dr.S.Bose Ajitha .X Anitha .K.M | Signal to Noise Ratio Based Clustering Approach for Energy Efficient WSN | 2017 Second International Conference on Computing and Communication Technologies (ICCCT'17) on 23rd and 24th February, 2017 in the Department of Information Technology, Sri Sai Ram Engineering College, Chennai | 2017 |
| 5 | S.Susila Sakthy Dr.S.Bose Ajitha .X | Optimized Tree Integrated Clustering Technique for Energy Efficient WSN | International Conference On Computational Science And Technology,ICCST 2017,09th and 10th March, 2017,Organized by Department Of Computer Science And Engineering,Sri Sai Ram Engineering College | 2017 |
| 6 | S.Susila Sakthy Dr.S.Bose Ajitha .X | DFS based Selective Data Transmission for Energy Efficient WSN | International Conference On Recent Trends in Computing and Information Technology. Department Of Computer Science And Engineering,SRM University | 2017 |

| 7 | S Susila Sakthy B.Abinaya S.Gurupriya M.Pooja | IOT Based Smart and Adaptive Lightning in Street Lights | 2017 Second International Conference on Computing and Communication Technologies (ICCCT'17) on 23rd and 24th February, 2017 in the Department of Information Technology, Sri Sai Ram Engineering College, Chennai | 2017 |
|---|---|---|---|---|
| 8 | S Susila Sakthy S.Aswini A.Sangavi S.Sangeetha | Emergency Evacuation For Congestion Detour Using Wireless Sensor Network | International Conference on Science and Innovative Engineering" on 3rd April 2016 at Jawahar Engineering College, Chennai, India. | 2017 |
| 9 | Susila Sakthy. S Nooruddin . M.A, Sathish. M, TharunKishore. M | Optimization of MapReduce inBigdata | International Conference on Breakthrough in Engineering, Science & Technology | 2016 |
| 10 | S.Susila Sakthy Dr.S.Bose | Clustering Approaches in Wireless Sensor Networks: A survey | International Conference CoMSE ,conducted by Department of CSE,Anna University Chennai. | 2015 |
| 11 | S. Susila sakthy, R.Gowrishangar , Md.Aadil Adam.E | Secured Energy Efficient Approach in Wireless Sensor Networks Using Homomorphic Encryption | International conference on Emerging Trends in Engineering and Technology | 2014 |
| 12 | S. Susila Sakthy | Taxonomy of Clustering Protocol in Wireless Sensor Networks: A Survey | International conference on Advances in Computer Science and Information Technology (ACSIT),2014, ISBN: 978-81-924031-3-7 | 2014 |
| 12 | S. Susila Sakthy | Systematic Review on Clustering Protocal in Wireless Sensor Networks: A Survey | International conference on Science and Innovative Engineering,5th & 6th April 2014,Chennai,India, ISBN: 978-81-904760-5-8 | 2014 |

**Paper presented in National Conferences**

| S.No. | Author | Title | Conference Name | Year |
|-------|--------|-------|-----------------|------|
| 1 | Susila Sakthy.S | Emergency Medical Advisor | National Conference on Smart Innovation in Communication and computing,NCSICC'19,27th March,organized by department of Computer Science and Engineering ,Sri Sai Ram Engineering college,Chennai. | 2019 |
| 2 | Susila Sakthy.S | A Survey on Natural Language Processing Technique | National Conference on Recent Trends in Computing and Technology NCRTCT'18 on 7th Marchl, 2017 organized by department of Information Technology,Sri Sai Ram Engineering college,Chennai. | 2018 |
| 3 | Susila Sakthy.S | Fishermen Disaster Management System | National Conference on Recent Trends in Computing and Technology NCRTCT'18 on 7th Marchl, 2017 organized by department of Information Technology,Sri Sai Ram Engineering college,Chennai. | 2018 |
| 4 | Susila Sakthy.S | Power Optimisation Techniques in IOT-A Survey | National Conference on Recent Trends in Computing and Technology NCRTCT'18 on 7th Marchl, 2017 organized by department of Information Technology,Sri Sai Ram Engineering college,Chennai. | 2018 |
| 5 | S.Susila Sakthy | IOT Based Safety Monitoring Systemin Street Light | National Conference on Recent Trends in Computing and Communication NCRTCC'18on 27th March, 2018 organized by Department of Computer Application, SriSai Ram Engineering | 2018 |

| | | | college. | |
|---|---|---|---|---|
| **6** | S.Susila Sakthy | IOT Based Safety Monitoring Systemin Street Light | National Conference on Smart Innovation in Communication and computing,NCSICC'18,27th March,organized by department of Computer Science and Engineering ,Sri Sai Ram Engineering college,Chennai. | 2018 |
| **7** | S.Susila Sakthy | Book Reader for Visually Impared people | National Conference on Smart Innovation in Communication and computing,NCSICC'18,27th March,organized by department of Computer Science and Engineering ,Sri Sai Ram Engineering college,Chennai. | 2018 |
| **8** | S.Susila Sakthy C.Vignesh Gopi C.Ramachandran, M.Srinivasa Raghavan | Community Hub | National Conference on Recent Trends in Computing and Communication NCRTCC'16 on 8th April, 2016 organized by department of Computer Application Sri Sai Ram Engineering college. | 2018 |
| 9 | Susila Sakthy.S Saranya.D | Intelligent Load Balance Clustering In Wireless Sensor Networks | National Conference on Recent Trends in Computing and Communication NCRTCC'16 on 8th April, 2016 organized by department of Computer Application ,Sri Sai Ram Engineering college. | 2016 |
| 10 | Susila Sakthy.S Saranya.D | Priority Based Multi Sencar Technique In Wireless Sensor Networks | National Conference on Recent Trends in Computing and Technology NCRTCT'16 on 29th April, 2016 organized by department of information Technology,Sri Sai Ram Engineering college,Chennai. | 2016 |
| 11 | S.Susila Sakthy Hemalatha, Sharmila Nivedha | Smart Eb-Meter Monitoring And Paying System | National Conference on Recent Trends in Computing and Technology NCRTCT'16 on 29th April, 2016 organized by department of information | 2016 |

| | | | Technology,Sri Sai Ram Engineering college,Chennai | |
|---|---|---|---|---|
| 12 | S. Susila Sakthy, R.Gowrishangar, Md.Aadil Adam.E | Secured Energy Efficient Approach in Wireless Sensor Networks Using Homomorphic Encryption | National Conference On "Computing and Technology"-NCCT'14 | 2014 |
| 13 | S. Susila Sakthy, H.Divyaa, R.kanmani, S.Vaishnavi | Fake Rating Detection using Temporal & Trust Analysis | National Conference on Novel Computing-NCNC'14 | 2014 |
| 14 | S. Susila Sakthy, H.Divyaa, R.kanmani, S.Vaishnavi | Fake Rating Detection using Temporal & Trust Analysis | the National Conference On Computing and Technology"-NCCT'14. | 2014 |

## BOOK CHAPTER

1. S.SusilaSakthy, S.SheebaRachal, K.Guru,Published chapter "Converging Omni channels and Integrating Data for Understanding Customers, Audiences and Media" in Management Analytics and Software Engineering,ISBN:978-81-950305-5-2

2.S.Susila Sakthy ,J.Aruna Jasmine,T.P.Rani,M.Nithya Published chapter "Green Internet of things-A Study" in Recent Trends in Engineering and Technology,

ISBN:9788194714999

3.T.P.Rani, S.Susila Sakthy Published chapter"Outlier Detection Technique for WSN based on Dempster Shafer theory" in Recent Trends in Engineering and Technology,

ISBN:9788194714999

## RESOURCE PERSON:

1. Resource Person for Technology Based Entrepreneurship Development Program (TEDP) Sponsored by DST – NIMAT, Govt. of India.(Department of Science & Technology- National Implementing and Monitoring Agency for Training)Department of IT, Sri Sai Ram Engineering College- "Computer Hardware Maintenance and Networking".

2. Resources Person for the Seminar on 'Artificical Intelligence' at Sri Ramnujan Engineering College

## COURSES COMPLETED:

1. Completed NPTEL course on Wireless Sensor Networks by April'2018 .
2.Completed 34 hours udemy course on Tech Explorations Arduino step by step on 22nd Nov'2019
3.Completed NPTEL course on Introduction to Internet of Things by April'2019 with score 85%

## FUNDED PROJECTS:

- Project titled "IOT Based Safety Monitoring System in Street light"was sponsored ,Rs 20,000 by IEDC

## SPONSERED PROGRAMS

- Organized 30 days TEDP programs sponsered by DST-NIMAT with the fund of 3 Lakhs

## DEPARTMENT ACTIVITIES:

- Coordibator for ISTE sponsered STTP.

- Coordinator for (TEDP) Sponsered by DST – NIMAT, Govt. of India.(Department of Science & Technology- National Implementing and Monitoring Agency for Training) "Computer Hardware Maintenance and Networking".

- Class Coordinator,Project coordinator,Placement coordinators for the batches 2016-2020,2010-2014.

- Coordinator for Xtrofest'19

- Criteria 4 Incharge for NBA-2018

- Coordinator for Entrepreneurship Awareness Camp sponsored by DST-IEDC held from 27 Feb 2019 to 16t1sth March 2019.

- Coordinator for Mini project 2018-2019

- Event Coordinator for Third International conference on ICCCT'19 and ICCCT'17

- Coordinator for video class presentation.

## PROPOSALS SUBMITTED FOR THE ACADEMIC YEAR 2018 – 2019

- Submitted Proposal for AICTE-Rresher Programme

- Submitted Proposal for DST-FDP

## PROPOSALS SUBMITTED FOR THE ACADEMIC YEAR 2019 – 2020

1.Submitted Proposal " IoT Based Blood Leakage Detection During Self" for DDP -DST

2.Submitted Proposal-RPS/AICTE

3.Submitted AnnaUniversity -FDP Proposal

4.Submitted ISTE-Proposal