


SRI SAI RAM ENGINEERING COLLEGE,CHENNAI-44
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Name & Photo :	Mr.M.BALAMURUGAN 
Designation:	Assistant Professor Grade II
Qualification :	M.Tech.,(Ph.D)
Area of Specialization :	Machine Learning,Mobile Computing
Experience :	Teaching : UG: 19 YEARS
No. of workshop / Conferences / FDP attended:	4/11/21
Publications :	Journals:16 National : - International : 6 Scopus Indexed Journals:10 Conferences :11 National : 3 International : 8
Research Guidance :	NIL

General :

- Symposium Coordinator(2009-2010)
- CSI Coordinator(2007-2009)
- Lab In charge(2009,2018-2022)
- Extra & Co – Curricular
Coordinator(2011- 2012)
- Class Coordinator(2012-2014)
- Symposium Coordinator(2013)
- Project Coordinator(2020)
- Placement Coordinator(2012-2022)
- Class Coordinator(2017-2020)
- Symposium Coordinator(2019)

Staff Achievements:

- Produced Centum results in the following subjects:
- Mobile Computing(Twice)
- DBMS(twice)
- High Speed Networks
- Operating Systems
- SPM
- Cyber Forensics
- Advanced Computer Architecture
- Computer Networks
- Software Design
- OOAD
- Network Design and Technologies
- NPTEL Course Certified
- NITTTR - Module 7 Completed
- Published paper in reputed International Journals.
- Presented papers in various National and International Conferences.
- Published 8 Indian Patents
- Published 10 Scopus Indexed Journals
- Published 6 Other International Journals
- Published 3 Book Chapters
- Published 1 Book
- Life Member, IST.

	<ul style="list-style-type: none"> Member, Institute of Electrical and Electronics Engineers, IEEE
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Sr.,No.,	Institution	Position Held	Duration of Service	
			From	To
1	Sri Sairam Engineering college	Lecturer	25.06.2007	31.07.20
2	Sri Sairam Engineering college	Assistant Professor	1.08.2010	Till Date
3	SRM Arts and Science College	Lecturer	25.07.2005	20.06.2007
4	Patrician College of Arts and Science	Lecturer	02.06.2003	30.04.2005
Total Experience			19 Years	

Workshop/Seminar:

1. Participated in National Seminar on “Research Methodologies in Next Generation Wireless Network Using OPNET” held in Sri Sai ram Engineering College on August 2010.
2. Attended a one day workshop on “An Awareness program on Matlab” at Sri Sai ram Engineering college (30th December 2014).
3. Attended Seminar on “REST API and Application Development “, held in Sri Sairam Engineering on 2nd Sep 2015.
4. Participated in Workshop on Analytics and Data Management-Insights on data science, 20.10.2020 to 21.10.2020, SRM Institute of science and technology, Vadapalani.

Conferences:

National Conference:

1. Presented paper in National conference - NACIS '09 held in Madha Engineering College, titled "An Enhanced MAC scheme for voice and data traffic in wireless ad-hoc network"
2. Presented paper in National conference- NCSICC'18) – Organized by Dept of CSE,Sri Sairam Engineering College Chennai on 27th March 2018,titled "Highly Sensitive-Pin-Accessibility For Atm Using Human Body Communication"
3. Presented paper in National conference- NCSICC'19) – Organized by Dept of CSE,Sri Sairam Engineering College Chennai on 5th March 2019,titled Sustainable healthcare framework for elderly assistance in wireless body area network (wban)

International Conference:

1. Presented paper in International conference - ICICT '09 held in TCS, Sipcot, titled "Handoff in Fourth Generation Mobile Networks".
2. Presented paper in International conference – ICACT '13 held in J.K.K.Nattraja College of Engineering and technology titled "Detecting Behavioral Characteristics of Spam Messages Using Filtering Techniques".
3. Presented paper in International Conference on Electrical, Communication & Computing (ICECC-2014) held on March 13th & 14th, 2014 in Tagore Engineering College titled "Secret Key Extraction Using Channel Impulse Response".
4. Presented a paper in International Conference on Emerging Trends in Engineering and Technology at Chennai on 5th April 2015,titled "Advance Security in Mobile AdHoc Network using Direct and Indirect Observation.
5. Presented paper in International Conference on Computational Science and Technology titled "Tumor Detection in Prostate Organ using Canny Edge Detection Technique" Organized by CSE dept, Sri Sai Ram Engineering College, 9th and 10thMarch 2017.
6. Presented paper in International Conference on Computational Science and Technology titled"Efficient Semantic Personalized Search Using RDF in Web Services" Organized by CSE dept, Sri Sai Ram Engineering College, 9th and 10thMarch 2017.
7. Presented paper titled"ENHANCED SMART VIDEO SURVEILLANCE SYSTEM FOR THEFT DETECTION IN SENSITIVE AREAS",International Conference on Computational Science and Technology(ICCST2020),5.03.2020 & 6.03.2020

8. Presented paper titled "SKIN DISEASE DETECTION USING IMAGE PROCESSING WITH SVM ", International Conference on Computational Science and Technology (ICCST2020), 5.03.2020 & 6.03.2020.

9. Presented a paper titled "Analysis of Machine Learning Techniques-A Survey " on 28th Jan at IAIM '22 -Sathyabama University.

International Journal:

1. Published Paper in International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 2, Issue 4, April 2015 titled "Advance Security in Mobile Ad Hoc Network Using Direct and Indirect Observation"

2. Published Paper in International Journal on Applications in Information and Communication Engineering '16 Volume 2, Issue 3, titled "*An Expectation Based Privacy Conserving for OSN*".

3. Published a paper in International Journal of engineering and Technology, Volume 7, 2018, special issue 39, titled "Sugar Level Detection Using Thermal Images".

Scopus Indexed Journals

1. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, March 2018, titled "Anonymous Location-Support and Self-Reliance Routing Protocol For MANET"

2. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, March 2018, titled "Energy-Efficient and Corrective Algorithm for Improving Stability in Wireless Sensor Networks"

3. Published a paper in Indian Journal of Public Health Research & Development, Volume 9, Issue no. 2, March 2018, titled "Reliable Link and Mobile-Based Optimized Routing Scheme for MANETS".

4. Published a paper in International Journal of engineering and Technology, Volume 7, June 2018, special issue 33,, titled "Highly sensitive-pin-Accessibility for ATM using human body communication".

5. Published a paper in International journal of Innovative Technology and Exploring Engineering, Nov 2019 ISSN:2278-3075, volume-9.issue-1. DOI:10.35940/ijitee.A9138.119119, titled "Efficient healthcare framework for senior benefaction", Nov 2019 ISSN:2278-3075, volume-9.issue-1 .DOI:10.35940/ijitee.A9138.119119

6. Published a paper in Journal of Green Engineering (JGE), November 2020 titled “An Efficient Mechanism to Detect Skin Disease using SVM”

7. Published a paper in Journal of Physics 2021, titled “Blockchain Technology based Empirical Studies on demand of distributed network”

Staff Development Programs:

1. Participated in Staff Development Program on “IT in Telemedicine and E-Health” held in Sri Sai ram Engineering College in July 2007.

2. Participated in Staff Development Program on “Instructional Design & Delivery” held in Sri Sai ram Engineering College on Jan 2008.

3. Participated in Staff Development Program on “Soft Computing With AI” held in Sri Sai ram Institute of Technology” on Sept 2011.

4. Participated in Staff Development Program on “Web Services” held in Sri Sai ram Engineering College on November 2011.

5. Participated in Staff Development Program on “MATLAB Applications in Electrical Engineering” held in Sri Sai ram Engineering College in March 2012.

6. Participated in FDP on BIG DATA organized by TCS , Chennai on 17th Dec 2013

7. Participated in FDP on Recent Trends on Cloud Computing and Virtualization held in Sri Sai ram Engineering College, Nov 2013

8. Participated in FDP on Big Data and IOT held in Sri Sai ram Engineering College, Feb 2014.

9. Participated in Cloud Computing organized by TCS, Chennai on 5th May 2014.

10. Participated in a Workshop on Cloud computing and Big data on 9th and 10th Dec 2014.

11. Participated in FDP on Cloud Computing and Virtualization held in Sri Sai ram Engineering College, May 2015

12. Participated in FDP on Grid and Cloud Computing held in Sri Sai ram Engineering College, August 2016

13. Participated in FDP on Data Science and Big Data Analytics Conducted by ICT ACADEMY at Sri Sairam engineering college, September 2017

14. Participated in FDP on Artificial Intelligence & advanced Machine learning using data science AICTE (S.A .Engineering college) Chennai, 22.11.2019 to 5.12.2019
15. Participated in Online FDP On Python 3.4.3 Adhiparasakthi Engineering College in association with IIT Bombay 16.04.2020 to 22.04.2020.
16. Participated in AICTE STTP on Internet of Things and its Applications, 26.10.2020 to 31.10.2020 by SRM VEC.
17. Participated in FDP on Disruptive Technologies 18.05.2020 To 20.05.20,3 days Jeppiaar Engineering College, Chennai.
18. Participated in FDP “Introduction to Data Science”,18.05.2020 To 22.05.20,5 days,Guntur Engineering College, Karnataka.
19. Participated in FDP “Latest Trends and Challenges IT Industry” 15.06.2020 To 20.06.20, 6 days R.M.D Engineering College, Chennai.
20. Participated in “Virtual Global Summit on AI” held from 5.10.2020 to 9.10.2020,5 days conducted by NITI Aayog.
21. Participated in ATAL FDP “Data Sciences” 16.11.2020 to 20.11.2020,5 days,Indian Institute of Information Technology, Design & Manufacturing Kancheepuram.
22. Participated in ATAL FDP “Machine Learning” 7.12.2022 to 11.12.2020, 5 days,RMK Engineering College
23. Participated in ATAL FDP “Cyber Security” ,30.11.2020 to 4.12.2020,5 days,SVCE
24. Attended the virtual global summit on Artificial Intelligence: Responsible AI for Social Empowerment (RAISE2020) -October 5th to 9th 2020

Patents:

1. Filed Indian patent on 12.10.20 the innovation titled “**An Automatic Hospital Stretcher That Monitors Vital Data’s of The Patients**”. (Application No 202041044322).
2. Filed Indian patent on 23.12.20 the innovation titled “Emotion Recognition Fitness Assistance for Fitness Blenders using Mel Frequency Cepstral Coefficients (MFCC) and spectral Modulation features”. (Application No 202041056021).
3. Filed an Indian patent application no. 202141005842 on 11/02/2021 titled” Voice Based Alerting and Assisting Tool for Visually Challenged.”

4. Filed Indian patent on 12.10.20 the innovation titled **“A Machine Learning Based Automated Toilet Cleansing System with Automated Doors”**. (Application No 202041044307).

5. Filed Indian patent on 12.10.20 the innovation titled **“Machine Learning Based Techie Safety Belt to Prevent the Sleepiness of Drivers”**. (Application No 202041044323).