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https://scholar.google.co.in/citations?user=E_JorpwAAAAJ&hl=en
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Objective

To pursue a professionally challenging position in order to contribute and develop the career in the area of teaching, analyzing, design and mentoring where I can grow along with the Institution with greater responsibility.

SHORT DESCRIPTION

28+ Years of Teaching Experience & Coordination Activities. UG – 25Years; PG – 3Years.

Publications: (Total–112)

Journal & Conferences (109)

International Journals- 12, International Conferences-25, National Conference -12
(Scopus–78, Web of Science–18)

Book Publications –3. Book Chapters-10.

International Grant Patent–1, Grant–3, Patent Published–7 Design Patent

Consultancy Projects Done–2, Funded Projects Applied –9, Sanctioned–1.

Number of Guest Lectures delivered in National Level –5

Keynote Speaker/ Invited Speaker–5

Session Chair/General Chair/Technical Program Committee Member-28

Editorship – 2

Awards Received – 4

Reviewer – 5 (International Journal)

UBA fund- 1Lakh for the project Solar Powered Smart Irrigation System

H-index of 17, i-index: 32 with 993 citations in Google Scholar.

H-index of 14 with 624 citations in Scopus.

ACADEMIC QUALIFICATIONS

Ph.D (Area:Adhoc Networks).

Year of Graduation: 2016

Anna University,
Chennai.

M.E (Applied Electronics)

Aarupadai Veedu Institute of Technology
Vinayaga Mission Research Foundation,
Chennai.

First Class
Year of Graduation: 2006.
B.E (Electrical and Electronics Engineering)
Annamalai University, Chidambaram,
First Class
Year of Graduation: 1996.

WORK EXPERIENCES

Teaching : 28+ Years

Name of the College	Designation	Joining	Relieving	Experience		
				Years	Months	Days
St. Peter's Engineering College , Avadi, Chennai.	Lecturer-EEE	3 June	2 Feb	2	8	-
Aarupadaiveedu Institute of Technology, Chennai	Senior Lecturer & Assistant Professor-EEE	2 Feb 1999	22 Aug 2007	8	6	20
SRM Valliammai Engineering College, Chennai	Assistant Professor (Sr.G)-ECE	23 Aug	10 Jan 2015	7	4	18
Indira Gandhi College of Engineering and Technology for Women	Associate Professor-ECE	12 Jan 2015	24 June 2016	1	5	12
Sri Sai Ram Institute of Technology	Associate Professor-ECE	19 June 2017	31 May 2024	6	11	20

Sri Sai Ram Institute of Technology	Professor- ECE	1 June2024	Till		6	10
Total				28	6	20

LIST OF CONFERENCE/WORKSHOP/SEMINAR ORGANIZED AND ATTENDED

FDP ORGANIZED

Six Days FDP on” AD HOC AND WIRELESS SENSOR NETWORKS”
FROM 22.06.2020 to 27.06.2020 at Sri Sairam Institute of Technology,
Chennai.

IEI sponsored Six days Workshop on “Getting Started With Internet of
Things” from 12.10.2020 to 17.10.2020 at Sri Sairam Institute of
Technology, Chennai.

FDP ATTENDED

Undergone In plant Training at BHEL Trichy, May -1995.

Undergone In plant Training at NLC Neyveli June – 1995.

Attended Workshop on “ANN & ITS Application” PSNA College of Engg, Jan-2003.

Attended Workshop on “Staff Development Programed” Anna University Chennai, 27th Jan
2003.

Attended Workshop “Embedded System” Aug’ 2006.

Attended ISTE SRM sponsored STTP on “RF for Wireless Networks”.

Attended workshop on “R&D Project Proposals Awareness Needs and Benefits Organized
by Centre for Technology Development and Transfer” Anna University 2014.

AICTE-ISTE sponsored six days workshop on "Modern Pedagogy For Engineering
Teachers In Making Digital India". May 21st to 26th, 2018 at Sri Sairam Institute Of
Technology, Chennai, India.

Attended “Tech workshop on Redhat (open source) Technology & Industry Adaptation” on
March 2018 at Sri Sai Ram Institute Of Technology, Chennai, India.

Attended Faculty Development Training Programme ” Adhoc and Sensor Networks” two
weeks at Loyola Institute of Technology conducted by Centre for Faculty Development
from 12.11.18 to 26.11.18.

Attended “Internet of Things using Raspberry Pi” from 26.06.19 to 28.06.19 at Sri Sairam
Institute of Technology, Chennai, India.

Attended ICT Academy “Creative Thinking” from 27.3.19 to 28.3.19

Attended ATAL FDP on “Artificial Intelligence: Concepts and Applications“ from
4.12.19 to 8.12.19 at "IIITDM Kancheepuram", Chennai.

Attended FDP “Machine learning using Python” from 12.12.19 to 13.12.19 at Sri SaiRam

Institute of Technology, Chennai, India.
 Attended ATAL FDP on “Augmented Reality (AR)/Virtual Reality(VR) “ from 16.06.20 to 20.06.20 at "National Institute of Technology" Warangal.
 Attended AICTE sponsored one week STTP on “Recent Trends in Wireless Sensor Networks and Application“from 16.07.20 to 22.07.20 at "Kumaraguru College of Technology” Coimbatore.
 Attended AICTE sponsored one week STTP on “Recent Trends in Wireless Sensor Networks and Application“from 3.08.20 to 08.08.20 at "MallaReddy Engineering College For Women” Secunderabad.
 Attended ATAL FDP on “Sensor Technology“from 17.08.20 to 21.08.20 at "St.Joseph’s Institute of Technology",Chennai.
 Attended AICTE sponsored one week STTP on “IoT for Healthcare “from 07.9.20 to 12.09.20 at " Dr.Mahalingam College Of Engineering and Technology”Pollachai.
 Attended AICTE sponsored one-week STTP on “Blockchain Application “ from 05.10.20 to 10.10.20 at " Saintgits College Of Engineering” Kottayam,Kerala.
 Attended FDP “RF devices for 5G Communications & Measuring Instruments “from October 12,2020 to October 16,2020 at K.Ramakrishnan College of Technology.
 Attended IITM HTIC MedTech Incubator 4 Weeks Women Entrepreneurship Development Program (WEDP) from 15-02-2021 to 13-03-2021

NPTEL

Received NPTEL Elite Certificate and 4-week FDP Certificate for the course “Outcome Based Pedagogic Principles for Effective Teaching”
 Received NPTEL Elite Certificate and 4-week FDP Certificate for the course “Stress Management”.
 Received NPTEL Certificate and 12-week FDP Certificate for the course “Block Chain Architecture Design and Use Cases”.
 Received NPTEL Certificate and 12-week FDP Certificate for the course for the Course “Introduction to Internet of Things”.
 Received NPTEL Elite Certificate and 12-week FDP Certificate for the course for the Course “Learning Analytics Tools”.
 Received NPTEL Certificate and 12-week FDP Certificate for the course for the Course “Communication Networks”.
 Received NPTEL Certificate and 12-week FDP Certificate for the course for the Course “Signals and Systems”.
 Received NPTEL Certificate and 4-week FDP Certificate for the course for the Course “Python for Data Science”.
 Received NPTEL Elite Certificate and 8-week FDP Certificate for the course for the Course “Introduction to Machine Learning”.
 Received NPTEL Certificate and 8-week FDP Certificate for the course for the “Course Accreditation and Outcome Based Learning “.

CERTIFICATION COURSE

Pursing Executive Professional Certification Program in Generative AI & Machine Learning in by IIT Indore.- INTELLIPAAT.

INTERNATIONAL CONFERENCE

Presented paper “ARSTP: A Reliable Sensor Transport Protocol for Wireless Sensor Network” International National Conference on “ICICT-09” in Sai Ram Engineering

College, Chennai, India.

Presented paper in International Conference organized by International Academy for science and technology “A Reliable Authentication between HeNB & eNB in LTE Networks”.

Presented paper” A Survey on Methods of V2V Communication” in Prince shri Venkateswara Padmavathy Engineering College, Chennai.

Presented Paper “Automatic Bomb Detection and Diffusion using Electromagnetic pulse” in Jerusalem college of Engineering, Chennai .

Presented paper” A Novel Approach for the design of Reading Assistant Device for the Blind”in Prince shri Venkateswara Padmavathy Engineering College, Chennai.

Presented paper” Predicting Stock Prices using Machine Learning Techniques”

ISBN: 978-1- 7281-8500-2, 2021, ICICT Proceedings, Coimbatore, India.

Presented paper” Vivoice-Digital Assistant for Visually Challenged People” In ICMMCIT 2021,10-12 feb The Gandhigram Rural Institute, Gandhigram, Dindigul, Tamilnadu

Presented paper” Improved Cluster Head selection for Data Aggregation in Sensor Networks” on 19-20th March ICACCS 2021 at Sri Eshwar College of Engineering, Coimbatore, Tamilnadu.

NATIONAL CONFERENCE

1. Paper “Advanced Seamless Vertical Handoff Architecture for WiFi and Wimax Heterogeneous Network with QoS Guarantees” National Conference on “CARCN-2010” in Satyabhama University, Chennai, India.
2. Paper “Advanced Seamless Vertical Handoff Architecture For WiFi and Wimax Heterogeneous Network with Qos Guarantees” National Conference on “EECS- 2010” in GKM Engineering College , Chennai, India.
3. Paper “ARSTP: A Reliable Sensor Transport Protocol for Wireless Sensor Network” National Conference On “EECS-2010” and won best paper award in GKM Engineering College.
4. Presented paper in National Conference on Microwave & Millimeter wave communication “A Reliable Authentication between HeNB & eNB in LTE Networks. ISBN No: 978-81-926837-0-6.
5. Paper “Smart Log Periodic Dipole Array Antenna (3.1ghz-11.6ghz) For Uwb Applications” National Conference on “ARICE'2K18” in Sri Sai Ram Institute of Technology, Chennai, India.
6. Paper “A Novel Approach To Vehicle Authentication And Monitoring System” National Conference on “ARICE'2K18” at Karpagam Institute of Technology, Coimbatore, India.
7. Presented paper” Special Glasses for Special People using Face Recognizing & AI” In NCADIST-2021,30-1-2021 Karpaga Vinayaga College Of Engineering And Technology, Tamilnadu.
8. Presented paper” A Mobile app which breaks the Queue” In NCADIST-2021,30-1-2021 Karpaga Vinayaga College of Engineering And Technology, Tamilnadu.

LIST OF PUBLICATIONS

SCI /WOS

R Prabha, N Ramaraj, “An improved multipath MANET routing using link estimation and swarm intelligence”, EURASIP Journal on Wireless Communications and Networking 2015 (1), 1-9.<https://doi.org/10.1186/s13638-015-0385-3>.

Prabha, R Gain enhancement by utilizing hexagonal reflector based optimized textile antenna. J Ambient Intell Human Comput (2021).
<https://doi.org/10.1007/s12652-020->

- R. Prabha, R. S. Sabeenian, K. Baskar, A. Ramkumar, Samson Alemayehu, "Development of Deep Learning Technique of Features for the Analysis of Clinical Images Integrated with CANN", *BioMed Research International*, vol. 2022, Article ID 2742274, 7 pages, 2022. <https://doi.org/10.1155/2022/2742274>
- R Prabha (2022), "A Machine Learning Approach for Human Breath Diagnosis with Soft Sensors ", *Computers and Electrical Engineering* 100,107945. <https://doi.org/10.1016/j.compeleceng.2022.107945>
- , R. Prabha, "Explicit and implicit oriented Aspect-Based Sentiment Analysis with optimal feature selection and deep learning for demonetization in India" *Data & Knowledge Engineering*, Volume 142, 2022, 102092, ISSN 0169-023X, <https://doi.org/10.1016/j.datak.2022.102092>
- R. Prabha, A. N. Arularasan, P. Nandal, K. Chanthirasekaran, Gopi Reddy Ranabothu, "Enhance Software-Defined Network Security with IoT for Strengthen the Encryption of Information Access Control", *Computational Intelligence and Neuroscience*, vol. 2022, Article ID 4437507, 10 pages, 2022. <https://doi.org/10.1155/2022/4437507>
- Prabha, R.; Baskar, M.; Nagalakshmi, T. J "Region Centric GL Feature Approximation Based Secure Routing for Improved QoS in MANET" *Intelligent Automation & Soft Computing*. 2023, Vol. 36 Issue 1, p267-280. 14p. <https://doi.org/10.32604/iasc.2023.032239>
- Prabha, R., Senthil, G.A. & Suganthi, S. Cluster head based secure routing using optimized dual-discriminator conditional generative adversarial network in wireless ad-hoc networks. *Peer-to-Peer Netw. Appl.* (2023). <https://doi.org/10.1007/s12083-023-01545-2>.
- Prabha, R., Senthil, G.A. & Suganthi, S. Cluster head based secure routing using optimized dual-discriminator conditional generative adversarial network in wireless ad-hoc networks. *Peer-to-Peer Netw. Appl.* (2023). <https://doi.org/10.1007/s12083-023-01545-2>
- Prabha, R., "Efficient Re-clustering with Novel Fuzzy Based Grey Wolf Optimization for Hotspot Issue Mitigation and Network Lifetime Enhancement ". doi10.32908/ahsw.v56.8077
- Prabha, R., Hybrid Multipath Routing Cluster head prediction based on SDN-enabled IoT and Heterogeneous context-aware graph convolution network. *Peer-to-Peer Netw. Appl.* (2024). <https://doi.org/10.1007/s12083-024-01685-z>
- R. Prabha (2024)., A Novel Predictive Analysis and Classification of Land Subsidence Vulnerability Mapping based on GIS using Hybrid Optimized Machine Learning Techniques and Computer Vision, *Procedia Computer Science*, Volume 233, Pages 343-352, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2024.03.224>.
- Prabha, R., Senthil, G. A., & Suganthi, S. (2024). Cell Zooming With Energy-Efficient Offloading in Cellular Network: An Optimization-Assisted Model. *International Journal of Communication Systems*, e6042, doi.org/10.1002/dac.6042.

SCOPUS PAPER

- R. Prabha, M. S. G. A, P. Anandan, S. Sivarajeswari, C. Saravanakumar and D. Vijendra Babu, "Design of an Automated Recurrent Neural Network for Emotional Intelligence Using Deep Neural Networks," *2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT)*, 2022, pp.

- 1061-1067, [doi: 10.1109/ICSSIT53264.2022.9716420](https://doi.org/10.1109/ICSSIT53264.2022.9716420).
- R Prabha, N Ramaraj, (2015), "Link availability estimation for modified AOMDV protocol", International Journal of Computer and Information Engineering 9 (3), 854-859.
- R Prabha, SP Premnath, (2018), "Effective Feature Set Selection And Centroid Classifier Algorithm For Web Services Discovery", International Journal of Pure and Applied Mathematics 119 (12), 1157- 1172.
- R. Prabha, G.A. Senthil, Revolutionizing education system with interactive augmented reality for quality education, Materials Today: Proceedings, Volume 46, Part 9, 2021, Pages 3860-3863, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.02.294>.
- SU Suganthi, G Valarmathi, V Subashini, R Janaki, R Prabha, (2021), "Coal mine safety system for mining workers using LoRa and wusn", Materials Today: Proceedings 46, 3803-3808. <https://doi.org/10.1016/j.matpr.2021.02.037>
- R. Prabha, K. Sivasankari, S. Kavitha, "Survey on regression analysis of photoplethysmography using machine learning", Materials Today: Proceedings, Volume 46, Part 9, 2021, Pages 3743-3748, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.02.013>.
- Dr. R. Prabha, (2021), " IoT based Smart Healthcare Monitoring Systems: A Literature Review, European Journal of Molecular & Clinical Medicine, 7 (11), 2761-2769.
- Ag R. Prabha, Balakrishnan S, S. Deivanayagi, V.K.G. Kalaiselvi, D. Pushgara , (2021), "A review of classification algorithms in machine learning for medical IoT", International Journal Of Pharmaceutical Research 13 (1), 3000-3007.
- Prabha, R., G. A. Senthil, A. Lazha, D. VijendraBabu, and Ms D. Roopa. "A Novel Computational Rough Set Based Feature Extraction for Heart Disease Analysis." In I3CAC 2021: Proceedings of the First International Conference on Computing, Communication and Control System, I3CAC 2021, 7-8 June 2021, Bharath University, Chennai, India, p. 371. European Alliance for Innovation, 2021. [DOI:10.4108/eai.7-6-2021.2308575](https://doi.org/10.4108/eai.7-6-2021.2308575).
- Prabha, R., Roopa, D., Babu, D. V., & Suganthi, S. (2021, March). Improved Cluster Head Selection for Data Aggregation in Sensor Networks. In 2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS) (Vol. 1, pp. 1356-1362). IEEE. <https://doi.org/10.1109/ICACCS51430.2021.9442048>.
- R. Prabha, A. Pomalar, P. Leela Jancy, and M. Rinthya. "Convergence of Cloud and Fog Computing for Security Enhancement." In 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), pp. 1-6. IEEE, 2021. [DOI: 10.1109/I-SMAC52330.2021.9640872](https://doi.org/10.1109/I-SMAC52330.2021.9640872).
- DDVB Dr.VamsidharEnireddy , Dr.R.Prabha ,Dr.A.M.Viswa Bharathy , (2021), "Open Source Cloud Application Solution With Paas, Saas And Iaas", Turkish Journal of Physiotherapy and Rehabilitation 32 (3), 2647- 2656.
- R-Prabha M, Prabhu R, Suganthi SU, Sridevi S, Senthil GA, Babu DV. Design of Hybrid Deep Learning Approach for Covid-19 Infected Lung Image Segmentation. In Journal of Physics: Conference Series 2021 Oct 1 (Vol. 2040, No. 1, p. 012016). IOP Publishing. [doi:10.1088/1742-6596/2040/1/012016](https://doi.org/10.1088/1742-6596/2040/1/012016).
- R Prabha, C Karthikeyan, DV Babu, (2021), "Support Vector Machine based Remote Sensing using Satellite Data Image", 2nd International Conference on Smart Electronics and Communication.
- R. Prabha ,S. Sridev, (2022), " Hard Exudates Detection for Diabetic Retinopathy

- Early Diagnosis Using Deep Learning”, Sustainable Communication Networks and Application.
- R. Prabha, S. G. A, N. N. Saranya, A. M, K. Somasundaram and K. C, "Design of Adaptive Priority Based IoT Communication in Wireless Network," 2022 International Conference on Advanced Computing Technologies and Applications (ICACTA), 2022, pp. 1-5, doi:[10.1109/ICACTA54488.2022.9753550](https://doi.org/10.1109/ICACTA54488.2022.9753550).
- R. Prabha and D. V. Babu, "A Novel Hybrid GAACO Algorithm for Cloud Computing using Energy Aware Load Balance Scheduling," 2022 *International Conference on Computer Communication and Informatics (ICCCI)*, 2022, pp. 1-5, doi: [10.1109/ICCCI54379.2022.9740795](https://doi.org/10.1109/ICCCI54379.2022.9740795).
- R. Prabha, M. Razmah, G. Saritha, R. Asha, S. G. A and R. Gayathiri, "Vivoice - Reading Assistant for the Blind using OCR and TTS," 2022 International Conference on Computer Communication and Informatics (ICCCI), 2022, pp. 01-07, doi: [10.1109/ICCCI54379.2022.9740877](https://doi.org/10.1109/ICCCI54379.2022.9740877).
- R. Jayaraman, A. S. A. Nisha, K. Somasundaram, C. Karthikeyan., D. V. Babu and R. Prabha, "Effective COVID Monitoring Process to Observe Patients Status using Blockchain," 2022 7th International Conference on Communication and Electronics Systems (ICES), 2022, pp. 804- 811, doi: 10.1109/ICES54183.2022.9835995.
- R Prabha, P Anandan, S Sivarajeswari, C Saravanakumar, DV Babu, (2022), "Design of an Automated Recurrent Neural Network for Emotional Intelligence Using Deep Neural Networks”, 4th International Conference on Smart Systems and Inventive Technology.
- R. Prabha, K. N. Reddy, K. M. Monica, G. A. Senthil and M. Razmah, "Network Intrusion Detection System using Supervised Learning based Voting Classifier," 2022 *International Conference on Communication, Computing and Internet of Things (IC3IoT)*, 2022, pp. 01-06, doi: [10.1109/IC3IOT53935.2022.9767903](https://doi.org/10.1109/IC3IOT53935.2022.9767903).
- S. G. A, R. Prabha, M. Razmah, S. Senthilpandi, S. Suganthi and S. Sridevi, "Design of a Novel Group Communication Framework to Improve Security in Internet of Things," 2022 *8th International Conference on Advanced Computing and Communication Systems (ICACCS)*, 2022, pp. 967-970, doi: [10.1109/ICACCS54159.2022.9785080](https://doi.org/10.1109/ICACCS54159.2022.9785080).
- S. G. A, R. Prabha, M. Razmah, S. Sridevi, D. Roopa and R. M. Asha, "A Big Wave of Deep Learning in Medical Imaging -Analysis of Theory and Applications," 2022 *6th International Conference on Intelligent Computing and Control Systems (ICICCS)*, 2022, pp. 1321-1327, doi: 10.1109/ICICCS53718.2022.9788412.
- Prabha, R., Senthil, G.A., Razmah, M., Akshaya, S.R., Sivashree, J., Cyrilla Swathi, J. (2023). A Comparative Study of SVM, CNN, and DCNN Algorithms for Emotion Recognition and Detection. In: Jacob, I.J., Kolandapalayam Shanmugam, S., Izonin, I. (eds) *Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems*. Springer, Singapore. https://doi.org/10.1007/978-981-19-6004-8_64.
- M. Razmah, S. G. A, R. Prabha, D. B, S. S and A. Naveen, "LSTM Method for Human Activity Recognition of Video Using PSO Algorithm," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-6, doi:

[10.1109/ICPECTS56089.2022.10046783](https://doi.org/10.1109/ICPECTS56089.2022.10046783).

- S. G. A, R. Prabha, M. Razmah, T. Veeramakali, S. S and Y. R, "Machine Learning Heart Disease Prediction Using KNN and RTC Algorithm," *2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, Chennai, India, 2022, pp. 1-5, [doi: 10.1109/ICPECTS56089.2022.10047501](https://doi.org/10.1109/ICPECTS56089.2022.10047501).
- R.M. Asha, P. Pondeepak, R. Prabha, G.A. Senthil, A. Padma Bharrathi, A novel approach effect of ocean acidification on oysters, *Materials Today: Proceedings*, 2023, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2023.01.194>.
- G. A. Senthil, P. Suganthi, R. Prabha, M. Madhumathi, S. Prabhu and S. Sridevi, "An Enhanced Smart Intelligent Detecting and Alerting System for Industrial Gas Leakage using IoT in Sensor Network," *2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT)*, Tirunelveli, India, 2023, pp. 397-401, doi: 10.1109/ICSSIT55814.2023.10060907.
- G. T. Selvi, R. Prabha, G. A. Senthil, S. R. Krishnan V, S. A and J. R, "An Improved Internet of Things Based Accident Detection System Using Sensor Networks," *2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, Chennai, India, 2022, pp. 1-5, doi: 10.1109/ICPECTS56089.2022.10046887.
- G. T. Selvi, R. Prabha, S. G. A, S. M, D. N and D. J, "Automated Road Monitoring System Using Machine Learning," *2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10047557.
- R. Prabha, G. A. Senthil, P. Suganthi, D. Boopathi, M. Razmah and A. Lazha, "Analysis of Cognitive Emotional and Behavioral Aspects of Alzheimer's Disease Using Hybrid CNN Model," *2022 International Conference on Computer, Power and Communications (ICCPC)*, Chennai, India, 2022, pp. 408-412, doi: 10.1109/ICCPC55978.2022.10072126.
- G. A. Senthil, R. Prabha, R. M. Priya, D. Boopathi, S. Sridevi and P. Suganthi, "Classification of Credit Card Transactions Using Machine Learning," *2022 International Conference on Computer, Power and Communications (ICCPC)*, Chennai, India, 2022, pp. 219-223, doi: 10.1109/ICCPC55978.2022.10072269.
- R. Prabha, G. A. Senthil, A. S. A. Nisha, S. Snega, L. Keerthana and S. Sharmitha, "Comparison of Machine Learning Algorithms for Hotel Booking Cancellation in Automated Method," *2022 International Conference on Computer, Power and Communications (ICCPC)*, Chennai, India, 2022, pp. 413-418, doi: 10.1109/ICCPC55978.2022.10072135.
- S. Sridevi, K. M. Monica, G. A. Senthil, R. Prabha, A. Sathya and J. Ramya, "Third Generation Security System for Face Detection in ATM Machine Using Computer Vision," *2022 International Conference on Computer, Power and Communications (ICCPC)*, Chennai, India, 2022, pp. 143-148, doi: 10.1109/ICCPC55978.2022.10072096.
- S. G. A, R. Prabha, J. Nithyashri, S. P, I. Thamarai and S. S, "A Novel Analysis and Detection of Autism Spectrum Disorder in Artificial Intelligence Using Hybrid Machine Learning," *2023 International Conference on Innovative Data Communication Technologies and Application (ICIDCA)*, Uttarakhand, India, 2023, pp. 291-296, doi: 10.1109/ICIDCA56705.2023.10099683.
- Senthil, G.A., Prabha, R., Suganthi, S., Sridevi, S., Shanthi, N. (2023). An IoT-Enabled Smart Network Traffic Signal Assistant System for Emergency Vehicles Using Computer Vision. In: Raj, J.S., Perikos, I., Balas, V.E. (eds) *Intelligent Sustainable Systems. ICoISS 2023. Lecture Notes in Networks and*

- Systems, vol 665. Springer, Singapore. https://doi.org/10.1007/978-981-99-1726-6_37.
- Senthil, G.A., Prabha, R., Divya, B., Sathya, A. (2023). An Empirical Analysis and Challenging Era of Blockchain in Green Society. Communication and Intelligent Systems. ICCIS 2022. Lecture Notes in Networks and Systems, vol 689. Springer, Singapore. https://doi.org/10.1007/978-981-99-2322-9_15.
- Senthil, G.A., Mathumitha, V., Prabha, R., Suganthi, S., Alagarsamy, M. (2023). Simulation on Natural Disaster Fire Accident Evacuation Using Augmented Virtual Reality. Inventive Communication and Computational Technologies. ICICCT 2023. Lecture Notes in Networks and Systems, vol 757. Springer, Singapore. https://doi.org/10.1007/978-981-99-5166-6_23.
- R. Prabha, G.A. Senthil, S. K. B. Sangeetha, S.U. Suganthi, D. Roopa.(2023). Network Routing and Its Real-Time Practice in Broadband Wireless Networks. Wiley online library, pp:99-112, <https://doi.org/10.1002/9781119827603.ch5>.
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S. No.	Application Number	Title/Remarks	Status
1.	201941030470	Smart Walking Aid for Visually Challenged Using GPS	Published
2.	201941054595	IoT Based Tr IoT Based Train Monitoring System Through Data Acquisition Techniques	Published
3.	2020103056	Voice Based Outdoor Navigation and Location Announcement Guidance System for Blind	Granted
4.	202141019985	An Automated Number Plate Recognition System Using Image Processing	Published
5.	347557001	A battery powered self-adjustable tool	Published
6.	352007-001	Handy device for face identification	Granted
7.	367883-001	Pedal pump	Granted
8.	367894-001	Automatic street light	Granted
9.	370382-001	IoT Enabled Service Robot for Isolation Ward	Published
10.	202441042689	Data-Driven Strategies for Optimizing Student Retention and Academic Outcomes Based On Nep Policies	Published
11.	202541032912	Automated Garbage Collector Robot	Published
12.	202541032916	Reconfigurable MIMO Antenna for Vehicular Communications	Published

ACHIEVEMENTS

In the Year 2000-2006 College Discipline Co-Coordinator to Control the students and staff to follow the Rules and regulations.

As ISO coordinator from 2005 to 2007.

NBA Coordinator in 2006.

As Department Exam cell coordinator from 2010 to 2012.

Class committee and minutes of meeting in charge from 2008 to 2013.

As Department Budget Coordinator in the year 2011 to 2013.

Conducting special Seminars for the typical papers and having coordination with the other University professors and IT Companies, I have conducted the Guest Lecturer classes for the students to get better knowledge and innovation.

Organized National Level Technical symposium as a convener in Year 2013.

Organized an Industrial Visit.

Smart India Hackathon department coordinator.

Autonomous department coordinator.

Course Coordinator Google Classroom

Sairam ECE Department innovator

ATL Mentor

AWARDS

Best Teacher Award 2020 from Technical Research Publications.

Global Eminent Academician Award 2021 from Vij Trust.

Best Funding project award from Sri Sairam Institute of Technology 2022.

Book Chapter

Published book chapter: 9 in Blockchain Technology, Emerging Technologies in Engineering Research, Technical research publications

ISBN:978-93-5419-211-1(online)

R.PRABHA 2022 “ Hard Exudates Detection for Diabetic Retinopathy Early Diagnosis Using Deep Learning”, Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT, volume 93), pp 309-319, 2022.

Published book Data Communications and Networking, Jayalakshmi Publications ISBN: 978-93-90203-10-9.

Published book Artificial Intelligence, Charulatha Publications

ISBN: 13 978-93-5577-295-4.

R. PRABHA 2023 “A Comparative Study of SVM, CNN, and DCNN Algorithms for Emotion Recognition and Detection”, Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-6004-8_64

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I hereby declared that the details furnished above are true to the best of knowledge

Signature

(Dr. R. Prabha)