

# Dr. S.Brindha

B.E, M.E, Ph.D.

Professor / Department of ECE

Sri Sai Ram Engineering College

West Tambaram

Chennai-600044, Tamil Nadu India

Email: sbrindha.ece@sairam.edu.in

brindhamit@gmail.com

Mobile: (+91) 9176650672



## Academic Employment

Professor - ECE, Sri Sai Ram Engineering College, Chennai, 2020-present

Associate Professor - ECE, Sri Sai Ram Engineering College, Chennai, 2014-2019

Assistant Professor - ECE, Sri Sai Ram Engineering College, Chennai, 1999-2014

## Research Fields

Optical Communication, Radio Over Fiber Networks, 5G & 6G Smart Networks

## Education

**Ph.D.** - Optical and Wireless Communication - Anna University, CEG Campus - 2018

**M.E.** - Communication & Networking - 2008

**B.E.** - Electronics & Communication Engineering - 1994

## Professional Memberships and leadership roles in IEEE & working groups:

**Professional Memberships:** SMIEEE, LMIETE, OSI, LMISTE, and OSA.

**Treasurer** - IEEE Madras Section (2025-2026)

**Chair, Awards Committee** - IEEE Madras Section (2025–2026)

**Member** - SAC IEEE India Council (2025-2026)

**Global Strategy Representative** - India, IEEE Photonics Society, USA (2024–2026)

**Chairman** - IEEE VTS Madras Section Chapter (2022–2026)

**Chairman**-IEEE Sensor Council Madras Chapter (2026-...)

**Member** - IEEE VTS AdHoc Committee on SAGW Integrated Systems (2024–2026)

**Vice Chairman** - IEEE SPS Madras Section Chapter (2022–2026)

**IEEE SB Counselor** - Sri Sairam Engineering College (2008–2025)

**Captain** -Sairam IEEE SCOPE

### Working Group

**Head** - BIS Ocular Prosthetic Eyes Working Group (2025-present)

**Member** - BIS Optical Communication Working Group (2025-present)

**Member** - National Quantum Working Group (2024-present)

## Awards and Recognition

Received **multiple awards from IEEE at the global level**, which include:

- 2024 IEEE MGA Achievement Award
- 2024 IEEE MGA Best Student Branch Counselor/Advisor Award
- 2023 IEEE R10 SAC Outstanding Volunteer Award
- 2023 IEEE India Council Best Outstanding Volunteer Award
- 2022 IEEE Madras Section IEEEExtreme 16.0 Proctor Award
- 2014 IEEE MGA Top Recruiter Award

## International Academic Visits

1. **Hong Kong:** Participated in the IEEE Vehicular Technology Society (VTS) Region 10 Chapter Chair Meeting 2024 on 17 October 2024 at Four Points by Sheraton Hotel, Hong Kong. Additionally attended the IEEE VTS flagship conference, **VTC2024** (IEEE Vehicular Technology Conference 2024).
2. **Malaysia:** Invited **Keynote Speaker** at an **IEEE International Conference** hosted by **Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)** on **31<sup>st</sup> March 2026**.

## Technical Talk & IEEE Motivational Talk delivered:

Delivered over **50 technical** and motivational sessions, inspiring and empowering more than **10,000 IEEE students and professional members**. These talks, conducted across numerous institutions in Chennai and abroad, have guided participants in actively engaging with IEEE and advancing their careers. Through various leadership roles—including Execom Member of IEEE Madras Section, Chair of the Student Activities Committee

(SAC), Chair of IEEE VTS Madras Section, and Vice Chair of IEEE SPS Madras Section—significant contributions have been made in mentoring and motivating the next generation of IEEE leaders.

## Projects and Activities Funded:

- **Bureau of Indian Standards (BIS)** research proposal titled "*Study and Comparative Analysis of Functional and Safety Requirements of Ocular Prosthesis*", allocated a financial grant of **Rs. 7,00,000/-** on 23.08.2025, sanctioned by the code **MHD 0154** - successfully completed by **May 31<sup>st</sup>, 2025**
- Received an **AU-CFR -Seed research Grant Rs 1,00,000/-** for the project title "**Artificial Intelligence assisted Frequency Selective RASORBER for Secured communications**" with project duration from 1<sup>st</sup> April 2024 to 31<sup>st</sup> March 2025
- Received **Rs 15,00,000 /-**(Rupees Fifteen lakhs only) fund sanctioned by **AICTE MODROB** Grant aid no and date: 8024 and 21.12.2009 for the **establishment of Optical Communication Systems Design and Development Laboratory** -successfully completed by **May 31<sup>st</sup>, 2010**.
- Organized Online mode **AICTE sanctioned ATAL FDP 2020-21** for the topic "Artificial Intelligence for Robotics" from Dec 7<sup>th</sup> - 11<sup>th</sup> 2020 with funding value of **Rs 1,00,000/-**.
- Organized physical mode **AICTE sanctioned ATAL FDP 2023-24** for the topic "Basics of Quantum Computing Robotics" from Dec 18<sup>th</sup>–23<sup>rd</sup> 2023 with funding value of **Rs 3,50,000/-**
- Organized funded flagship events **IEEE SPS seasonal school** with funding value of **Rs 4,15,000/-** from IEEE SPS Society during March 2023 ,
- Organized funded flagship events **IEEE SPS Forum** with funding value of **Rs 2,15,000/-** from IEEE SPS Society during December 2023
- Received a fund **Rs 2,45,000** to organize a flagship event under IEEE SPS banner "**Design Competition**" during Oct 2025 to March 2026
- Organized funded **AICTE-sponsored the 2<sup>nd</sup> International Conference on Communication, Computing, and Internet of Things (IC<sup>3</sup>IOT-2020)** as **Conference Chair** on 20<sup>th</sup> – 22<sup>nd</sup> Feb 2020 & **Conference Chair -IC<sup>3</sup>IoT-2022** from 10<sup>th</sup> March 2022 to 11<sup>th</sup> March 2022. Also acted as **Technical Program Chair** for the **IEEE 2024 International Conference on Communication, Computing, and Internet of Things (IC<sup>3</sup>IOT-2024)** April 2024

- **Key IEEE Events Organized:**

1. Providing financial oversight and support for all Madras Section events in the capacity of **Treasurer**, including **IEEE conference approvals, Hub Congress, POCO training programs, student training programs, technical seminars, Faculty Development Programs (FDPs), online webinars, and other associated activities**
2. IEEEExtreme 16.0, 17.0, 18.0, with up to 3000 students and 1000+ certificates of participation
3. IEEE Day Celebrations, with 3000+ students and 500+ professional members
4. IEEE SB Officers Meetup 2023.
5. IEEE MAS Hub congress during March 17<sup>th</sup> & 18<sup>th</sup> 2024
6. IEEE Awareness Webinar on SAC Awards-Madras Section & India council
7. Organized more than 200+ IEEE online and offline technical and non-technical events.

## Publications & Reviewer

Reviewer for the following Journals

1. The Journal of Optical Communications (DE Gruyter)
2. Journal of Optics (Springer)
3. Optical Engineering (SPIE)
4. International Journal of Electronics (Taylor & Francis).
5. Journal of High-Frequency Communication Technologies(Blue martin press )

## Online Courses Domain Certification: NPTEL

- Completed Advanced Faculty Domain & Received NPTEL STAR and BELIEVER Recognition in selected Courses

## Research Profiles

Published **100+** National and International Journals and Conference Papers.

**Total Number of Ph.D. Scholars Registered : 08**

**Total Number of Ph.D. Scholars Completed: 01**

**DC member - Ph.D. Scholars : 10**

**Vidwan ID:** [181870](#)

**Scopus ID:** [58113832500](#)

Google Scholar: <https://scholar.google.co.in/citations?user=1zcLlxIAAAAJ>

Orcid ID : [0000-0002-6141-1589](https://orcid.org/0000-0002-6141-1589)

Patents Published : **11 & granted-01**

Books published : 01

## Published Research Articles: (Only Web of Science/Scopus)

Sr. No	Title of Paper/Report/Book	Author(s)	Name, Volume, Number of Journal, and Year of Publication	Impact Factor
1.	Machine learning based mitigation of fiber nonlinearity caused by chaotic signals in optical communication	Sivasakthi Thangarasu and Brindha Saminathan	J. Opt. 27 (2025) 115704 (19pp), <a href="https://doi.org/10.1088/2040-8986/ae184d">https://doi.org/10.1088/2040-8986/ae184d</a> Journal of Optics-IOP Publishing	SCI Indexed Impact factor-2.7.
2.	Secure transmission in optical networks via chaotic signal generation and swarm intelligence optimization	Sivasakthi Thangarasu and Brindha Saminathan	J. Opt. 27 (2025) 115705 (19pp), <a href="https://doi.org/10.1088/2040-8986/ae184c">https://doi.org/10.1088/2040-8986/ae184c</a> Journal of Optics-IOP Publishing	SCI Indexed Impact factor-2.7.
3.	Hybrid lifetime prediction of DFB lasers using Arrhenius theory and machine learning	Lakshmi G & Brindha S	<a href="https://doi.org/10.1007/s12596-025-03029-3">https://doi.org/10.1007/s12596-025-03029-3</a> Journal of Optics, Springer Nature Publisher	SCI Indexed Impact factor-2.5.
4	A Hybrid Temporal Convolutional and Long Short-Term Memory Network for Accurate and Interpretable Glycemia Prediction	S. Gowriswari & S. Brindha	<b>Journal of Electrical Engineering &amp; Technology</b> <a href="https://doi.org/10.1007/s42835-026-02653-8">https://doi.org/10.1007/s42835-026-02653-8</a> Springer Nature Publisher	SCI Indexed Impact factor-1.6
5	Edge Integrated Vision Transformer Architecture with Cross Spectral Attention Fusion for Real Time Seed and Crop Health Diagnosis in Multimodal Precision Agriculture Systems	G. Jayanthi & S. Brindha	<b>Journal of Electrical Engineering &amp; Technology</b> <a href="https://doi.org/10.1007/s42835-026-02711-1">https://doi.org/10.1007/s42835-026-02711-1</a> Springer Nature Publisher	SCI Indexed Impact factor-1.6
6	“Maximizing VANET Performance in Cluster Head Selection using Intelligent Fuzzy Bald Eagle Optimization”	Maria Christina Blessy A, Brindha S,	Vehicular Communications Elsevier Publishers ISSN : 2214-2096, DOI <a href="https://doi.org/10.1016/j.vehcom.2023.100660">https://doi.org/10.1016/j.vehcom.2023.100660</a>	SCI Indexed Impact Factor: 5.8

7	“Energy-efficient fuzzy management system using tri-parametric methodology in VANET”	Maria Christina Blessy A, Brindha S	Wireless Networks (2023), Springer Publisher, <a href="https://doi.org/10.1007/s11276-023-03505-3">https://doi.org/10.1007/s11276-023-03505-3</a> .	SCI Indexed Impact Factor: 3.0
8	“A Comprehensive Survey of Various Localization Methods in Vehicular Ad Hoc Network”,	Maria Christina Blessy A, S. Brindha	International Journal of Computer Networks and Applications (IJCNA), 8(6), PP: 818-829, 2021, DOI: 10.22247/ijcna/2021/210729	SCOPUS Indexed
9	Enabling Secure High-speed Data Transmission: Coherent Chaotic Optical Communication With Deep Learning and Electro-Optic Feedback	Sivasakthi T Brindha S	DOI: <a href="https://doi.org/10.2298/YJOR240215028S">https://doi.org/10.2298/YJOR240215028S</a> Yugoslav Journal of Operation Research	SCOPUS Indexed
10	“Threshold-Based Fuzzy Deep Q network for Spectrum Management in Cognitive Radio Vehicular Networks”,	Maria Christina Blessy A, S. Brindha	International Journal of Computer Networks and Applications (IJCNA), 11(6), PP: 915- 932, 2024, DOI: 10.22247/ijcna/2024/55	SCOPUS Indexed
11	"Energy and electromagnetic pollution considerations in AROF-based multi-operator multi-service systems."	Brindha Saminathan, Ilavarasan Tamilarasan, and Meenakshi Murugappan	Photonic Network Communications 34 (2017): 221-240.	SCI Indexed Impact Factor: 1.7
12	"Improved fiber nonlinearity mitigation in dispersion managed optical OFDM links	Brindha Saminathan, and Meenakshi Murugappan.	Optics Communications 385 (2017): 87-91.	SCI Indexed Impact Factor: 2.5
13	Radio over fiber system architecture: a boon to meet future energy and Pollution challenges.	Brindha, S., and M. Meenakshi.	Optoelectronics and Advanced Materials-Rapid Communications 9.May-June 2015 (2015): 855-864.	SCOPUS Indexed
14	Fiber impairments mitigation in OFDM based cognitive optical networks	Ilavarasan Tamilarasan, Brindha Saminathan, Meenakshi Murugappan	Optical and Quantum Electronics 52 (5), 1-22	SCI Indexed Impact Factor: 4.0
15	"Impairment assessment of orthogonal frequency division multiplexing over dispersion-managed links in backbone and backhaul networks,"	Ilavarasan Tamilarasan, Brindha Saminathan, Meenakshi Murugappan	Optical Engineering, Vol. 55, Issue 4, 046105 (April 2016). <a href="https://doi.org/10.1117/1.OE.55.4.046105">https://doi.org/10.1117/1.OE.55.4.046105</a>	SCI Indexed Impact Factor: 1.2
16	A Compact Design of multiband antenna for wireless application	Priyanka, Brindha S	International Journal of Pure and Applied Mathematics 119 (No. 7 2018)	SCOPUS Indexed

17	Analysis of Laser Linewidth on the Performance of Direct Detection OFDM Based Backhaul and Backbone Networks	Ilavarasan Tamilarasan, Brindha Saminathan,	Journal of Optical Communications; De Gruyter <a href="https://doi.org/10.1515/joc-2019-0222">https://doi.org/10.1515/joc-2019-0222</a> Year 2019	SCOPUS Indexed
18	Radio over fiber based signal transport schemes for emerging mobile fronthaul networks – a review	Brindha Saminathan, Ilavarasan Tamilarasan, ,	Journal of Optical Communications; De Gruyter DOI: <a href="https://doi.org/10.1515/joc-2019-0224">https://doi.org/10.1515/joc-2019-0224</a> Year 2020/7	SCOPUS Indexed
19	Intelligent Encoding through OCDM for High Capacity and Connectivity in Wireless 5G and Beyond Networks	S Brindha, T Ilavarasan, T Sivasakthi, G Lakshmi, A Rashmi,	Journal Of High-Frequency Communication Technologies 1 (03), 84-101	SCOPUS Indexed

## Conference Publications:

[Total count = 112 ( only recently presented here)]



This author profile is generated by Scopus ↗

# Saminathan, Brindha

Sri Sairam Engineering College, Chennai, Chennai, India • Scopus ID: 58113832500

• [0000-0002-6141-1589](#) ↗

Show all information

<b>147</b>	<b>67</b>	<b>6</b>
Citations by <b>140</b> documents	Documents	<u><a href="#">h-index</a></u>

Set alert Save to list Edit profile More

Documents (67)   **Impact Beta**   Cited by (140)   Preprints (1)   Co-authors (134)   Topics (37)

Awarded grants (0)

You can view, sort, and filter all of the documents in search results format.

Export all Save all to list Sort by Date (newest)

Conference Paper

Performance Analysis of Fluidic Channel designed Antenna for 5G and 6G Applications **0**  
Citations

Sandhya, J., Brindha, S.

2025 International Conference on Recent Advances in Electrical Electronics Ubiquitous Communication and Computational Intelligence Raeeucci 2025, 2025

Show abstract Full text Related documents

Conference Paper

Real-Time Environmental Impact Analysis on Optical Fiber Networks Using IoT and AI **0**  
Citations

Lakshmi, G., Brindha, S.

2025 International Conference on Recent Advances in Electrical Electronics Ubiquitous Communication and Computational Intelligence Raeeucci 2025, 2025

Show abstract Full text Related documents

ENABLING SECURE HIGH-SPEED DATA TRANSMISSION: COHERENT  
CHAOTIC OPTICAL COMMUNICATION WITH DEEP LEARNING AND  
ELECTRO-OPTIC FEEDBACK

[Sivasakthi, T.](#), [Brindha, S.](#), [Ilavarasan, T.](#)

[Yugoslav Journal of Operations Research](#), 2025, 35(3), pp. 501–522

Show abstract  Full text  Related documents

0  
Citations

**Don't miss out on new publications by this author!**

 Set document alert

Conference Paper

Cardiac Signal Regeneration Using Regenerative AI

[Mohamed Salman, A.](#), [Sivasakthi, T.](#), [Brindha, S.](#), [Suresh Kumar, M.](#)

[2025 International Conference on Computing and Communication Technologies Iccct 2025](#), 2025

Show abstract  Full text  Related documents

0  
Citations

Conference Paper

Advancement in Underwater Wireless Communication Technology for  
Efficient Marine Application

[Selvi, V.M.](#), [Brindha, S.](#), [Harini, S.](#), [Gunavathi, D.](#), [Diksha, R.S.](#)

[2025 International Conference on Computing and Communication Technologies Iccct 2025](#), 2025

Show abstract  Full text  Related documents

1  
Citations

Conference Paper

Driver's Drowsiness Detection and Prevention System

[Lavin Kumar, S.M.](#), [Jana, S.](#), [Ganesh Kumar, M.](#), [Lakshmi, G.](#), [Brindha, S.](#)

[Proceedings of the 2025 11th International Conference on Communication and Signal Processing Iccsp 2025](#),  
2025, pp. 59–62

Show abstract  Full text  Related documents

0  
Citations

Conference Paper

Performance Analysis of Inverted U-Shaped Antenna for 5G Wireless  
Application

[Sandhya, J.](#), [Brindha, S.](#), [Pradeepa, R.](#), [Suvatha Lakshmi, S.](#), [Varshini, A.](#)

[2025 International Conference on Computing and Communication Technologies Iccct 2025](#), 2025

Show abstract  Full text  Related documents

0  
Citations

Conference Paper

Zigbee Based Navigation of an Agricultural Robot Using Track Planning and  
Shape Recognizing Algorithm

[Chithra, V.](#), [Brindha, S.](#), [Girish, S.](#), ... [Sachin M, P.](#), [Bharathwaj, S.](#)

[2025 International Conference on Computing and Communication Technologies Iccct 2025](#), 2025

1  
Citations

Show abstract  Full text  Related documents

---

Conference Paper

Li-Fi Driven Underwater Communication: Advancements and Applications in Optical Wireless Networks

0

Citations

Brindha, S., Hritish Joy, S.R., Teja Raghuvver, B., ... Godwin Joe, V.A., Yeshwanth, K.

2025 International Conference on Computing and Communication Technologies Iccct 2025, 2025

Show abstract  Full text  Related documents

---

Conference Paper

Biometric Cardless Transaction Employing Light Fidelity

0

Citations

Rashmi, A., Brindha, S., Vasanthkumar, M., ... Yuvaraj, K., Aravindhan, S.

2025 International Conference on Computing and Communication Technologies Iccct 2025, 2025

Show abstract  Full text  Related documents

---

Conference Paper

Artificial Intelligence in English Language Assessment Transforming Traditional Oral Exams into Adaptive Learning Tool

0

Citations

Kala, M.S., Sreela, B., Al-Muraad, N.H., ... Brindha, S., Alazzam, M.B.

2025 IEEE 2nd International Conference on Advances in Modern Age Technologies for Health and Engineering Science Amathe 2025 Proceedings, 2025

Show abstract  Full text  Related documents

---

Article • *Open access*

Threshold-Based Fuzzy Deep Q-Network for Spectrum Management in Cognitive Radio Vehicular Networks

0

Citations

Blessy, M.C.A., Brindha, S., Danesh, K.

International Journal of Computer Networks and Applications, 2024, 11(6), pp. 915–932

Show abstract  Full text  Related documents

---

Article

Energy-efficient fuzzy management system using tri-parametric methodology in vanet

9

Citations

Blessy, A.M.C., Brindha, S.

Wireless Networks, 2024, 30(2), pp. 617–635

Show abstract  Full text  Related documents

---

Article

Maximizing VANET performance in cluster head selection using Intelligent Fuzzy Bald Eagle optimization

23

Citations

Blessy A, M.C., S, B.

Vehicular Communications, 2024, 45, 100660

Show abstract  Full text  Related documents

---

Conference Paper

AI Based on Inception v3 Architecture for Fault Diagnosis in paddy crop using image recognition and Transfer Learning

1

Citations

[Jayanthi, G.](#), [Brindha, S.](#)

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpets 2024, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Mitigating Environmental Impacts on Optical Fiber Fault Detection Using Machine Learning

1

Citations

[Lakshmi, G.](#), [Brindha, S.](#)

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpets 2024, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Optimizing Safety Messaging in Cognitive Radio VANETs with Smart Message Sorting and Spectrum sensing

0

Citations

[Blessy, A.M.C.](#), [Brindha, S.](#), [Danesh, K.](#)

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpets 2024, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Smart Grid Integrity Monitoring System powered by Edge Computing

1

Citations

[Brindha, S.](#), [Dev Anand, R.E.](#), [Dhanush Aravind, K.](#)

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icpets 2024, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Advancements in Diabetic Foot Ulcer Detection: A Thermal Imaging Approach

2

Citations

[Brindha, S.](#), [Ramanakrishnan, A.](#), [Kirthika, R.](#), [Monish Ram, V.S.](#)

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Glossa Recognition For Greater Security Based on Image Processing

1

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Agriculture Field Monitoring and Motor Control System with Rain Detection

2

[Myvizhi Selvi, V.](#), [Brindha, S.](#), [Ravichandran, R.](#), [Karthikeyan, J.](#), [Ramesh Chandar, K.S.](#)

Citations

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Ensuring Resilience:Iot-Driven Fault Detection in Fiber Optic Networks

2

[Yugesh, R.P.](#), [Lakshmi, G.](#), [Brindha, S.](#), [Sriram, S.V.](#), [Padmanabhan, B.A.](#)

Citations

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Smart Ambulance System using IoT

1

[Devibalan, K.](#), [Brindha, S.](#), [Sreeraman, R.](#), [Thrinam Vishwakumaar, M.E.](#), [Muralidharan, J.](#)

Citations

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Implementation of Li-Fi Technology in Smart Classrooms

0

[Brindha, S.](#), [Godwin Joe, V.A.](#), [Hritish Joy, S.R.](#), [Teja Raghuvveer, B.](#), [Hariharan, E.](#)

Citations

[5th International Conference on Electrical Communication and Computer Engineering Icecce 2024, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

Visible Light Transmission in a Biometric Cardless ATM Transaction With a Security System

0

Citations

[Rashmi, A.](#), [Brindha, S.](#), [Vasanthkumar, M.](#), [Seenuvasan, M.](#), [Yuvaraj, K.](#)

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

Conference Paper

## Optimal Crop Yield

[Lakshmi, G.](#), [Brindha, S.](#), [Sathish, V.](#), [Manoj Kumar, V.](#), [Santhoshkumar, P.](#)

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024](#)

[Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

## Conference Paper

## Smart Trolley With RSSI - Opencv Based Navigation and RFID Billing System

0

[Rashmi, A.](#), [Srinithin, S.B.](#), [Brindha, S.](#), [Gnanasudharsan, A.](#), [Gautham, S.](#)

Citations

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024](#)

[Proceedings, 2024](#)

Show abstract  Full text  Related documents

---

## Conference Paper

## Enhancing Electric Vehicle Resilience with Adaptive Battery Systems

0

[Devibalan, K.](#), [Brindha, S.](#), [Bharath, C.](#), [Sathya Prasanna, S.](#), [Selvakarthik, K.](#)

Citations

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icepts 2024, 2024](#)

Show abstract  Full text  Related documents

---

## Conference Paper

## Harnessing the potential of conversational AI: A Roadmap for Academic Applications

0

[Venkatraman, S.](#), [Brindha, S.](#), [Lakshmi, G.](#), [Selvi, V.M.](#), [Sandhya, J.](#)

Citations

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icepts 2024, 2024](#)

Show abstract  Full text  Related documents

---

## Conference Paper

## Accident Avoidance and Response System

0

[Chithra, V.](#), [Brindha, S.](#), [Priya, C.](#), ... [Premalatha, S.](#), [Shreeja, K.](#)

Citations

[4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India Icepts 2024, 2024](#)

Show abstract  Full text  Related documents

---

## Conference Paper

## Tomato Leaf Disease Detection Using Machine Learning

4

[Jayanthi, G.](#), [Brindha, S.](#), [Vijayalakshmi, S.](#), ... [Angelin Freeda, J.](#), [Sahana, S.](#)

Citations

[2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024](#)

[Proceedings, 2024](#)

Show abstract  Full text  Related documents

Conference Paper  
An Enhanced Surveillance System for Gun and Knife Detection using YOLOv8 and Raspberry Pi 2  
Citations  
Isaac Richardson Jacob, E., Sivasakthi, T., Brindha, S., ... Priyadharsan, M., Vishal, V.S.  
2024 International Conference on Communication Computing and Internet of Things Ic3iot 2024 Proceedings, 2024  
Show abstract  Full text  Related documents

---

Conference Paper  
Machine Learning for Fraud Detection in Blockchain Transaction 3  
Citations  
Kaur, K., Venkatesh, R., Pundir, S., ... Arul Mary Remy, V., Singh, R.  
2024 International Conference on Knowledge Engineering and Communication Systems Ickecs 2024, 2024  
Show abstract  Full text  Related documents

---

Article  
Radio over fiber based signal transport schemes for emerging mobile fronthaul networks – a review 0  
Citations  
Saminathan, B., Tamilarasan, I., Thangarasu, S.  
Journal of Optical Communications, 2023, 44(s1), pp. S803–S813  
Show abstract  Full text  Related documents

---

Conference Paper  
Low Cost Assorted Sized Bottles Automated Liquid Filling System using SCADA 0  
Citations  
Gowriswari, S., Karthikeyan, R., Brindha, S., Karthick Kumar, S.  
2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023, 2023  
Show abstract  Full text  Related documents

---

Conference Paper  
Grouping Based Wrong Way Vehicle Detection 1  
Citations  
Lakshmi, G., Brindha, S., Prathaban, B.P., Rashmi, A.  
2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023, 2023  
Show abstract  Full text  Related documents

---

Conference Paper  
Diabetic Care: NIG 0  
Citations  
Brindha, S., Ramanakrishnan, A., Kirthika, R., Monish Ram, V.S.  
2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023, 2023  
Show abstract  Full text  Related documents

---

Conference Paper  
Optimal Cluster Minimization for VANETs using Modified Tuna Swarm Optimization 5  
Citations

[Maria Christina Blessy, A.](#), [Brindha, S.](#), [Bhargavi, K.V.](#), [Kamali, T.](#)

[7th International Conference on Trends in Electronics and Informatics Icoei 2023 Proceedings, 2023](#), pp.

1389–1393

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

The Power Optimization of mm Wave Circular Array Antenna for 5G Communications

1

Citations

[Brindha, S.](#), [Josy, J.T.](#), [Pooja, R.](#), [Baskaran, M.](#), [Subashree, M.](#)

[2023 International Conference on Recent Advances in Electrical Electronics Ubiquitous Communication and Computational Intelligence Raeeucci 2023, 2023](#)

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

Camobot - Thermal Image Processing Surveillance Rover with GPS Tracking and Human Detection Using OpenCV

0

Citations

[Kumar, R.G.S.](#), [Brindha, S.](#), [Lakshmi, G.](#), [Narayanan, L.R.](#), [Subramani, S.A.](#)

[2023 International Conference on Recent Advances in Electrical Electronics Ubiquitous Communication and Computational Intelligence Raeeucci 2023, 2023](#)

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

An Efficient Deep Learning Model for Intraoperative Tissue Classification in Gynecological Cancer

3

Citations

[Mishra, R.](#), [Kumar, M.](#), [Brindha, S.](#), ... [Raja, C.](#), [Moharekar, T.T.](#)

[IEEE 9th International Conference on Smart Structures and Systems Icsss 2023, 2023](#)

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

Smart Trolley PRO

2

Citations

[Rashmi, A.](#), [Brindha, S.](#), [Myvizhi Selvi, V.](#), ... [Gnanasudharsan, A.](#), [Gautham, S.](#)

[2023 Intelligent Computing and Control for Engineering and Business Systems Icebs 2023, 2023](#)

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

Deep Learning-Based Tennis Shot Type Prediction Using Gait Analysis

1

Citations

[Rashmi, A.](#), [Brindha, S.](#), [Sandhya, J.](#), ... [Madhanraj, P.](#), [Nithyasri, J.](#)

[2023 Intelligent Computing and Control for Engineering and Business Systems Icebs 2023, 2023](#)

[Show abstract](#)  [Full text](#)  [Related documents](#)

---

Conference Paper

Usage of Millimeter Wave Signal Propagation for Outdoor Communication

0

[Sandhya, J.](#), [Brindha, S.](#), [Rashmi, A.](#), ... [Swetha, R.](#), [Vinmathi, A.V.S.](#)

Citations

[2023 Intelligent Computing and Control for Engineering and Business Systems Iccebs 2023, 2023](#)

Show abstract  Full text  Related documents

---

Conference Paper

Hyperparameters Optimization using Gridsearch Cross Validation Method for machine learning models in Predicting Diabetes Mellitus Risk

18

Citations

[Gowriswari, S.](#), [Brindha, S.](#)

[2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022](#)

[Proceedings, 2022](#)

Show abstract  Full text  Related documents

---

Conference Paper

Smart Attendance System Using RFID and Face ID

10

Citations

[Rashmi, A.](#), [Brindha, S.](#), [Srinithin, S.B.](#), [Gnanasudharsan, A.](#)

[2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022](#)

[Proceedings, 2022](#)

Show abstract  Full text  Related documents

---

Conference Paper

Mapping the Surface Water Using Convolution Neural Networks for Remote Sensing Technology

2

Citations

[Rashmi, A.](#), [Brindha, S.](#), [Myvizhi Selvi, V.](#), [Sandhya, J.](#), [Lakshmi, G.](#)

[2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022](#)

[Proceedings, 2022](#)

Show abstract  Full text  Related documents

---

Conference Paper

Pocket-sized gadget for detection of Liquefied crude oil in Molecular state with IOT enabled lightning notification system

0

Citations

[Brindha, S.](#), [Swetha, D.](#), [Kumar, R.G.S.](#), [Rithika, V.](#), [Jayapreetha, N.](#)

[3rd International Conference on Power Energy Control and Transmission Systems Icpects 2022 Proceedings,](#)

[2022](#)

Show abstract  Full text  Related documents

---

Conference Paper

Suspicious Activity Detecting Camera

2

Citations

[Sivasakthi, T.](#), [Brindha, S.](#), [Hariharasudhan, S.M.](#), [Vishal, V.S.](#), [Priyadharsan, M.](#)

[2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022](#)

[Proceedings, 2022](#)

Show abstract  Full text  Related documents

---

Conference Paper  
Smart Heart Health Monitoring System Using IoT 2  
Jayanthi, G., Brindha, S., Umamaheswari, B., Gayathri, R., Vishalakshi, M.  
2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022  
Proceedings, 2022  
Show abstract  Full text  Related documents  
Citations

---

Conference Paper  
AI-powered Digital Classroom 12  
Lakshmi, G., Brindha, S., Revanya Devi, M., Divya, J., Shobhanali, N.  
2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022  
Proceedings, 2022  
Show abstract  Full text  Related documents  
Citations

---

Conference Paper  
A Compact Medikit health monitoring device 1  
Brindha, S., Lakshmi, G., Rashmi, A., ... Kirthika, R., Anantha Padmanabhan, B.  
2022 1st International Conference on Computational Science and Technology Iccst 2022 Proceedings, 2022,  
pp. 339–343  
Show abstract  Full text  Related documents  
Citations

---

Conference Paper  
Augmented Security System for Commercial buildings by Manipulating Object  
Detection and Admin Panel 4  
Brindha, S., Anjum, N.N., Kumar, R.G.S., ... Jayapreetha, N., Swetha, D.  
2022 International Conference on Communication Computing and Internet of Things Ic3iot 2022  
Proceedings, 2022  
Show abstract  Full text  Related documents  
Citations

---

Conference Paper  
Real Time Pervasive Health Monitoring System 1  
Lakshmi, G., Brindha, S., Banu Priya, P., ... Gowtham, J., Venkatesh, R.  
3rd International Conference on Power Energy Control and Transmission Systems Icpets 2022 Proceedings,  
2022  
Show abstract  Full text  Related documents  
Citations

---

Article • *Open access*  
A Comprehensive Survey of Various Localization Methods in Vehicular Ad Hoc  
Network 4  
Maria Christina Blessy, A., Brindha, S.  
International Journal of Computer Networks and Applications, 2021, 8(6), pp. 818–829  
Show abstract  Full text  Related documents  
Citations

---

- Article  
Fiber impairments mitigation in OFDM based cognitive optical networks 1  
Tamilarasan, I., Saminathan, B., Murugappan, M. Citations  
Optical and Quantum Electronics, 2020, 52(5), 273  
Show abstract  Full text  Related documents
- 
- Conference Paper  
Design of conformal antenna for wireless capsule 1  
Preethiba, S., Brindha, S. Citations  
Proceedings of the 2018 International Conference on Communication Computing and Internet of Things Ic3iot  
2018, 2018, pp. 77–80, 8668181  
Show abstract  Full text  Related documents
- 
- Article  
Energy and electromagnetic pollution considerations in ARoF-based multi-operator multi-service systems 2  
Saminathan, B., Tamilarasan, I., Murugappan, M. Citations  
Photonic Network Communications, 2017, 34(2), pp. 221–240  
Show abstract  Full text  Related documents
- 
- Article  
Improved fiber nonlinearity mitigation in dispersion managed optical OFDM links 8  
Tamilarasan, I., Saminathan, B., Murugappan, M. Citations  
Optics Communications, 2017, 385, pp. 87–91  
Show abstract  Full text  Related documents
- 
- Article  
Impairment assessment of orthogonal frequency division multiplexing over dispersion-managed links in backbone and backhaul networks 0  
Tamilarasan, I., Saminathan, B., Murugappan, M. Citations  
Optical Engineering, 2016, 55(4), 046105  
Show abstract  Full text  Related documents
- 
- Article  
Design of cost-optimal passive optical networks for small cell backhaul using installed fibers 0  
Sathyapriya, V., Brindha, S. Citations  
International Journal of Applied Engineering Research, 2015, 10(20), pp. 18020–18023  
Show abstract  Full text  Related documents
- 
- Article

Radio over fiber system architecture: A boon to meet future energy and

pollution challenges

[Brindha, S.](#), [Meenakshi, M.](#)

[Optoelectronics and Advanced Materials Rapid Communications](#), 2015, 9(5-6), pp. 855–864

Show abstract  Full text  Related documents

---

2

Citations

Conference Paper

Self-organization in femtocells: A game theoretic approach to mitigate the interference and enhance the macrocell performance

[Anisha, M.A.](#), [Brindha, S.](#)

[International Conference on Communication and Signal Processing Iccsp 2014 Proceedings](#), 2014, pp. 1900–1905, 6950175

Show abstract  Full text  Related documents

---

0

Citations

Conference Paper

Power quality monitoring and compression using the discrete wavelet transform

[Brindha, S.](#), [Sundararajan, D.](#)

[Icaccs 2013 Proceedings of the 2013 International Conference on Advanced Computing and Communication Systems Bringing to the Table Futuristic Technologies from Around the Globe](#), 2014, 6938724

Show abstract  Full text  Related documents

---

4

Citations

Conference Paper

Power optimization in mobile stations using heterogeneous small cells for green cellular networks

[Aarthy, A.](#), [Brindha, S.](#), [Meenakshi, M.](#)

[2014 International Conference on Computer Communication and Informatics Ushering in Technologies of Tomorrow Today Iccci 2014](#), 2014, 6921825

Show abstract  Full text  Related documents

---

2

Citations

Conference Paper

Comparison of Optical Vector Signal Generation with oSSB Technique using Duo-Binary Modulation, oSSB Technique using EDFA and oVSB format based on SPM effect without using SOA

[Hemalatha, P.](#), [Brindha, S.](#), [Rajini, A.R.](#)

[9th Wseas International Conference on Telecommunications and Informatics Tele Info 10](#), 2010, pp. 201–204

Show abstract  Full text  Related documents

---

0

Citations

Article

Analysis of Laser Linewidth on the Performance of Direct Detection OFDM Based Backhaul and Backbone Networks

[Tamilarasan, I.](#), [Saminathan, B.](#), [Selvaprabhu, P.](#), [Ramakrishnan Kuppasamy, M.](#)

[Journal of Optical Communications](#), 1980, 44, pp. S795–S801

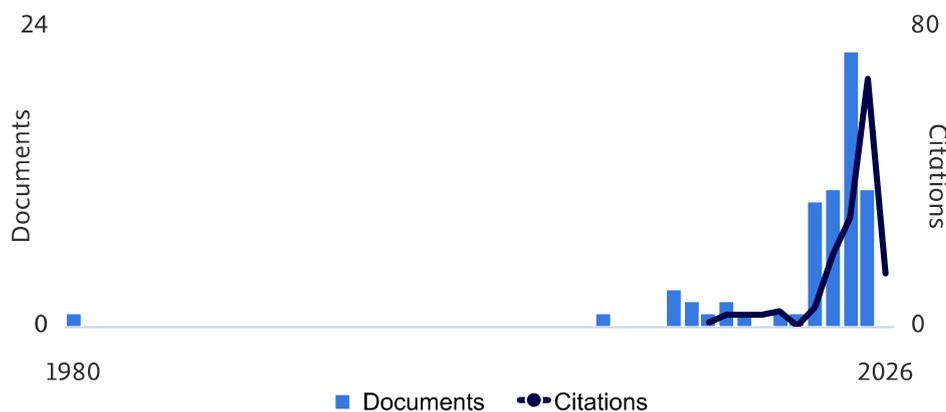
0

Citations

Display [100 results](#)

[View all references](#)

### Document & citation trends



[Citation overview](#) [Analyze author output](#)

### Author Position for 2015 - 2024

First author 22% [^](#)

<b>11</b> Documents	<b>1</b> Average citations	<b>0.376</b> FWCI
------------------------	-------------------------------	----------------------

Last author 16% [^](#)

Co-author 62% [^](#)

Single author 0% [^](#)

[Show author position details](#)