

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Personal Details	
Name:	Dr. P. B. Edwin Prabhakar
Designation:	Professor
Educational Qualification:	B.E., M.S., Ph.D.
Experience:	32 years
Area of Specialization:	Cryptography & Network Security

Educational Details				
S.No.	Degree	Branch/Specialization	Institute/University	Year
1	B.E.	[ ECE ] Electronics and Communication Engineering	PSNA College of Engineering & technology , Dinidigul Madurai – Kamaraj University	1990
2	M.S.	[ IT ] Software Technology	Bharathidhasan University	2003
3	Ph.D.	[ CSE ] Cryptography & Network Security	St. Peters University, Chennai	2019

### International and National Journals

1. Mahdi abdukhudur Alkhafaj, Karunakumar Davala, P.B. Edwin Prabhakar, Subramania Bala Jeshurun, Al-Fatlawy Ramy Riadand R. Senthil Kumar - **A PV-Powered Single Phase Seven-Level Inverter's Photocurrent and Injected Power** , E3S Web of Conferences 564, 05009 (2024),DOI <https://doi.org/10.1051/e3sconf/202456405009> Published online 06 September 2024 .
2. Ahmed H.R. Abbas, Akhmedov Abdulaziz, Ahmed Hussein Alawadi, P.B. Edwin Prabhakar, Santhosh Kumar and Lalitkumar Wadhwa - **Advancements in Sensorless Control Techniques for Electric Drives** E3S Web of Conf. **Volume** 540, 2024 **Published online**21 June 2024 . DOI <https://doi.org/10.1051/e3sconf/202454002010>
3. Prabhavathi, K., Prabhakar, P.B.E., Arunadevi, M., Shanthi, D.**Design and Implementation of a Machine Learning-Based Wind Turbine Control System** E3S Web of Conferences ., 2023, 387, 01008., July 2023 DOI : <https://doi.org/10.1051/e3sconf/202338701008>.

4. Udayakumar, R., Balakrishnan, D., Reddy, Y.V., Prabhakar, P.B.E., Thilaka, A. **Machine Learning Based Intrusion Detection System** proceedings - International Conference on Technological Advancements in Computational Sciences, ICTACS 2023, 2023, pp. 197–205 DOI :[10.1109/ICTACS59847.2023.10389883](https://doi.org/10.1109/ICTACS59847.2023.10389883)
5. Habib Satria; Dharmesh Dhabliya; R. Srisainath; P.B. Edwin Prabhakar; S. Sivakamasundari - **Designing a Predictive Maintenance-Based Algorithm for DC Motor Fault Detection and Classification** 3rd International Conference on Technological Advancements in Computational Sciences (ICTACS) , Article 37 , PP 212. Year: 2023 | Conference Paper | **Publisher: IEEE.**
6. Mudiarasan Kuppusamy; Appa Row Sannasai; Noor Adila Abd Raub; P. B. Edwin Prabhakar; Syed Kadir Abdullah; V. Asha - **Tourism Route Design of Characteristic Local Landscape Based on Improved Ant Algorithm** 2023 Second International Conference On Smart Technologies For Smart Nation (SmartTechCon) Year: 2023 | Conference Paper | **Publisher: IEEE** DOI :[10.1109/SmartTechCon57526.2023.10391604](https://doi.org/10.1109/SmartTechCon57526.2023.10391604)
7. Sudhakar, G., Azath, H., Priya M, P.A., Edwinprabhakar, P.B. - **A Hybrid Cloud Security System using Cryptograph** Proceedings of the 2nd International Conference on Edge Computing and Applications, ICECAA 2023, 2023, pp. 12–16 DOI:[10.1109/ICECAA58104.2023.10212352](https://doi.org/10.1109/ICECAA58104.2023.10212352)
8. Kishore, D.V.S., Babu, Y.M.M., Blessy, Y.M., Anitha, K., Prabhakar, P.B. Edwinprabhakar. - **Cloud Controlled Home Safety and Management Solution for Equipment Automation via Internet** Proceedings - 7th International Conference on Computing Methodologies and Communication, ICCMC 2023, 2023, pp. 39–44.
9. Jayanthi, S., Srividhya, E., Ramshanka, N., Srinivasan, T.R., P.B. Edwinprabhakar. - **Cloud based Weather Station using IoT Technology to Track the Air Parameters** Proceedings of the 2023 2nd International Conference on Electronics and Renewable Systems, ICEARS 2023, 2023, pp. 537–541. DOI : [10.1109/ICEARS56392.2023.10085362](https://doi.org/10.1109/ICEARS56392.2023.10085362)
10. R.Praveena, T.R. Ganesh Babu, V. Rameshbabu, B. Raja, D. Usha, P.B. Edwin Prabhakar **Early Stage Lung Cancer Prediction from Computed Tomography Images using U Net and Res-U- Net.** Venue: SF7 Track 7 : Machine learning & Deep learning ICOCs , NIT Puducherry. Springer , **21-22 Dec 2023**
11. Ravindra Babu B 1\* , Mesfin Abebe Haile 1 , Daniel Tsegaye Haile 1 , Desta Zerihun 1 , P. B. Edwin Prabhakar 2\* , K. V. Kamyshev 3 **Prediction of Kidney Disease Using Machine Learning Algorithms** Submitted: 21.01.2023; Accepted: 12.02.2023; Published 25.02.2023 Issue 26. February 2023 | Cardiometry DOI :[10.18137/cardiometry.2023.26.939](https://doi.org/10.18137/cardiometry.2023.26.939)
12. Prabhakar, P.B.E., Sikamani, K.T. **Stability enhancement using region based certification mechanism in Manet** - Indian Journal of Forensic Medicine and Toxicology, 2018, 12(3), pp. 242–247
13. P. Gayathri ; Dr. P. B. Edwin Prabhakar "Limited Feedback Scheme for Device to Device Communications in 5G Cellular Networks with Reliability and Cellular Secrecy Outage Constraints." International Journal for Scientific Research and Development 6.3 (2018): 2277-2280. Volume-6, Issue - 3

14. Latha R.1 , V.Ramesh Babu<sup>2</sup>, P.B.Edwin Prabhakar<sup>3</sup>1SRM Institute of Science and Technology, Kattankulathur, Chennai<sup>2</sup>Dr.M.G.R. Educational and Research Institute, Maduravoyal, Chennai<sup>3</sup>New Prince Shri Bhavani College of Engineering, Chennai TuijinJishu/Journal of Propulsion Technology  
ISSN:1001-4055 Vol. 45No.2(2024) 447 .
- 15 J.Sofia Bobby, Bharath S., Madhankumar C., Sudharsanam K., Ummathullah U., P.B. Edwin Prabhakar  
**Cost efficient oxygen concentrator with PSA technology** Submitted: 11.01.2022; Accepted: 5.02.2022; Published online: 23.02.2022 February 2023 Cardiometry  
DOI:10.18137/cardiometry.2022.25.182185

## International Conference

1. "Secured method provided by Authenticator using Encrypted Tokens in Mobile Adhoc networks, Proceedings of the International Conference [ ICCCBDA -2019 ] on Cognitive Computing and Big Data Analytics , on Feb 27, 2019 at St. Peter's University ,Chennai.
2. "Multiple Key Authenticator Using Stegno Graphic Analysis Method in Ad Hoc Networks, Proceedings of the 5th International Conference on Contemporary Engineering, on March 25, 2017 at Madha Engineering College ,Chennai.
- 3 " Stegno Analysis Integration of Multikeys Authentication with secured Stegno graph analysis using Trap doors Keys", Proceedings of International Conference on Recent trends in Science, Engineering & Management (ICRTSEM 2017), on March 11, 2017 at Karpaga Vinayaga College of Engineering and Technology,Kanchipuram.
4. "Cost Effective Privacy Preserving of Intermediate data sets in Cloud", Proceedings of 3rd International Conference on Futuristic Trends in Computer Science Engineering & Information Technology (ICFTCS2014), on March 2, 2014 at Thiruvalluvar College of Engineering and Technology ,Vandavasi.
5. "Efficient Exclusive Opportunistic Routing For Vastly Dynamic Mobile Ad Hoc Networks", IEEE Proceedings of International Conference on Current Trends in Engineering and Technology, Vol. 9, No. 2, pp. 157-160, on July 3<sup>rd</sup> 2013 at Akshaya College of Engineering & Technology ,Coimbatore.

## National Conference

1. Presented a paper titled "A PRIVACY - PRESERVING AND UNTRACEABLE GROUP DATA SHARING SCHEME" at the 7th National Conference on Innovative Computing Techniques [NCICT'22] - QuBIC organized by the Department of Computer Science and Engineering, Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai 95, held on 13.04.2022.
2. "Malicious Detection Scheme for AODV Based Mobile Ad Hoc Networks", Proceedings of National Conference on Advanced Trends in Computing and Communications (NCATCC15) on March 28, 2015 at St. Peter's College of Engineering & Technology, Chennai.
3. "On the Utilization aspect of Document Data for Mining the Text Knowledge", Proceedings of National Conference NCAICA15), on Feb 9, 2015 at Meenakshi Ramasamy Engineering College ,Ariyalur.
4. "Automated K- Sensitivity Classifier Model Towards Textual Sensitive Protection", Proceedings at Asan Memorial College of Engineering and Technology ,Chengalpattu.

5. "A Detection of Anomaly Scheme for AODV based Mobile Ad Hoc Networks", Proceedings of 2nd National Conference (NCACS13), on April 17, 2013 at Asan Memorial College of Engineering and Technology ,Chengalpattu.
6. "Anomaly Scheme for AO Distance Vector routing based Mobile Ad Hoc Networks", Proceedings of 2nd National Conference (AGNICON13), on March 26, 2013 at Agni College of Technology, Chennai.

### **Professional Society Membership**

ISTE ( The Indian Society for Technical Education )

Life Member of ISTE No : LM 101414

### **Program Organized**

1. Seminar on How to plan for Start-up and legal & Ethical Steps on 25-01-2021 by Mr.V. Giri Prasad , Team Leader & Program Analysts, Anudeep Foundation ,West Tambaram, Chennai - 600073
2. Guest lecture on Design of IOT on Smart Automation by Mr. Solomon Raju , Senior Technical Manager , JR Coders, Chennai on 5.03.21 .
3. Guest Lecture on Steganography techniques by Dr. Hemalatha , Professor – CSE , Panimalar College of Engineering , Chennai on 17.03.21.
4. Guest Lecture on Recent trends in Blue Chain Technology by Mr. Rajan, CEO , Aadhyta Infomedia Solutions , Chennai on 25.03.21.

### **Program Attended**

#### **FDP/STTP**

1. 5 days FDP - From 26.08.24 to 31.08.24 on " Contemporary Research trends " organized by JPR Institute of Technology
2. Participated in "**ONE DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON AI TOOLS FOR TEACHING**" organized by Star/International Foundation for Research and Education on 22.06.2024
3. Attended the five day faculty development and training programme on DHANALAKSHMI COLLEGE OF ENGINEERING Approved by AICTE, organized by the Department of Computer Science and Engineering & Department of Artificial Intelligence and Data Science, Dhanalakshmi College of Engineering, OF PARTICIPATION from 22/07/2024 to 26/07/2024.
4. 5 days FDP - on " Future challenges in ^G " organized by SIMATS Engineering from 04.03.24.to 08.04.24
5. 5 days FDP - on " Journey from Inception to Publishing" organized by IQAC - Dept of CSE – AICTE At Dhanraj Baid Jain College from 05.02.24.to 09.02.24

6. 5 days FDP - From 17 May 2021 to 21 May 2021 on “ Impact on Recent research Evolution of Machine Learning and Deep Learning “ organized by ATAL – AICTE At Jawaharlal Nehru technical University , Anantapur from 29.3.2024 to 05.03.24
7. Successful completion of One week Faculty Development Program On "[Amazon Web Services](#)" During the period of 22nd August 2022 to 27th August 2022 Organized by [MEGHA INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN](#) in collaboration with BRAINOVISION SOLUTIONS INDIA PVT.LTD & ALL INDIA COUNCIL FOR TECHNICAL EDUCATION - AICTE
8. *Participated in One Week Online National Level Faculty Development Programme on “Recent Tools & Technologies for Data Science and Artificial Intelligence” held from 19.09.2022 to 26.09.2022 organized by Department of Computer Science & Engineering, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh*
9. Participated in the Virtual Webinar on “Application of IOT in Aeronautical Industry - A Smart Way to Manufacturing” organized by Dr.TTIT IEI Kolar Local Centre & IIC, Dr. TTIT, KGF. Held on 05th September 2023.
10. Participated and completed successfully One Week International Online Faculty Development Programme on “Trends And Innovations In Industry 4.0” from 23.01.2023 to 28.01.2023, at Department Of Instrumentation and Control Engineering, A. V. C. College Of Engineering, Mayiladuthurai, Tamilnadu, India.
11. 5 days FDP - From 17 May 2021 to 21 May 2021 on “ Cyber Security Analytics “ organized by ATAL – AICTE At Jawaharlal Nehru technical University , Anantapur
12. 10 days FDP - From 24 May 2021 to 2<sup>nd</sup> June 2021 on “ Machine learning & Artificial intelligence in data Science “ organized by AICTE at PACE Institute of Technology & Science, Ongole
13. 5 days FDP - From 07 June 2021 to 11 June 2021 on “ Cyber Security ATAL AICTE “ organized by AICTE at Anand Institute of Higher Technology , Chennai
14. 6 days FDP - From 14 June 2021 to 19 June 2021 on “ Advanced Networking & Concepts “ organized by E & ICT Academy IIT , Kanpur
15. 5 days FDP - From 24 May 2021 to 28 may 2021 on “ Open Source Tools for Data Analytics “ organized by Sri SaiRam Engineering College , Chennai.
16. 6 days FDP - From 19 July 2021 to 24 July 2021 on “ Web Site Development using Word press “ organized by E & ICT Academy IIT , Kanpur
17. 1 month Training programme - From 30 June 2021 to 30.July 2021 on “ Innovation Ambassador Training [ Foundation level ] “ organized by AICTE MOE's Innovation cell

### Workshop

1. Two days online workshop on Cyber Attacks and Web Application Security organised by IT Dept, Vellammal Institute of Tech , 25.02.22 to 26.02.22
2. 26 May 2021 Workshop on “ AR & VR “ organized by Dept of CSE , SRM Institute of Science & Technology , Ramapuram

3. 2<sup>nd</sup> June 2021 Workshop on “ IOT “ Systems organized by Siddharth Institute of Engineering & Technology , Puttu

### **Books Published :**

**Title** : **MACHINE LEARNING**  
**AUTHORS** :  
Dr. V.FRAMESHBABU , Dr. AC. VIJAYAKUMARSN , DR. P.B.EDWIN PRABHAKAR  
Jupiter Publications Consortium , 2022. <https://jpc.in.net/product/machine-learning/>

### **Patents**

1. A CONTEXT AWARE SECURE WIRELESS BODY ZONE SYSTEMS FOR HEART PATIENTS Grant Innovation Patent , Govt of Australia. No : 2021 102533 , 13.05.2021
2. AI-POWERED PERSONAL ASSISTANT DEVICE 08.08.2024 No. 422623-001