

Benin Pratap. C

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EDUCATIONAL DETAILS

- **Ph. D** on Photovoltaic Systems in 2020
- **M.E** (Power Electronics & Drives) from Anna University in 2005 -First Class
- **B.E** (Electrical and Electronics Engg) from CSI Institute of Technology in 1999

EXPERIENCE

1. Karunya Institute of Technology and Sciences, Coimbatore, Assistant Professor (AGP 7000) August 2021 to till-date
2. Karunya University, Coimbatore, Assistant Professor (AGP 6000) Jan'10-July 2021
3. Karunya University, Coimbatore, Lecturer, July'07-Jan'10
4. CSI College of Engineering, Ketti, India, Lecturer April '05-July '07

PUBLICATIONS:

INTERNATIOANL JOURNAL

- Chandran, B. P., Selvakumar, A. I., Sathiyam, S. P., & Gunamony, S. L. (2022). Artificial Neural Network-Based Hybrid Model for Efficient Battery Management. National Academy Science Letters, 1-4. **(Impact Factor: 0.6)**
- Sathiyam, S. P., Pratap, C. B., Stonier, A. A., Peter, G., Sherine, A., Praghash, K., & Ganji, V. (2022). Comprehensive Assessment of Electric Vehicle Development, Deployment, and Policy Initiatives to reduce GHG Emissions: Opportunities and Challenges. IEEE Access. **(Impact Factor: 3.476)**
- Benin Pratap C, A Immanuel Selvakumar, S Paul Sathiyam, Shine Let G "Minimization of Torque Ripple in Induction Motor Drive by Optimal Harmonic Elimination", Przegląd Elektrotechniczny, R. 98 NR 4/2022, pp: 36-39, ISSN 0033-2097. **(Scopus Indexed)**

- Benin Pratap Chandran, A. Immanuel Selvakumar, G. Shine Let, S. Paul Sathiyam, “Optimal model parameter estimation of solar and fuel cells using improved estimation of distribution algorithm”, *Ain Shams Engineering Journal*, ISSN 2090-4479. <https://doi.org/10.1016/j.asej.2020.07.034> (**Impact Factor: 4.79**)
- Paul Sathiyam, Merry Cherian, Benin Pratap C, “Neural Network-Based Vehicle Longitudinal Controller – Design And Validation Using Hardware In Loop Testing”, *International Journal of Scientific & Technology Research*, Volume 9, Issue 3, March 2020, pp 7109-7114, ISSN 2277-8616 (**Scopus Indexed**)
- Paul Sathiyam, C Benin Pratap, Daniel, Arun, “Assessment of BLDC Drive for E-Bike Application”, *International Journal of Innovativa Technology and Exploring Engineering*, Volume 8, Issue 11, September 2019, pp 894-899, ISSN 2278-3075 (**Scopus Indexed**)
- Dr. S. Paul Sathiyam, Daniel, C. Benin Pratap, “Effective Design and Analysis of PEDELEC E-Bike Using MBD Approach”, *International Journal of Mechanical Engineering and Technology*, Volume 9, Issue 13, Dec 2018, pp. 568–577, ISSN: 0976-6359 (**Scopus Indexed**)
- Benin Pratap Chandran, A. Immanuel Selvakumar, and Finna Mary Mathew, “Integrating multilevel converters application on renewable energy sources— A survey”, *Journal of Renewable and Sustainable Energy*, Volume 10, no. 6, 2018. ISSN: 1941-7012, DOI: 10.1063/1.5045320. (**Impact Factor: 2.847**)
- Benin Pratap C, Shine Let G, Finna Mary Mathew, Sylvia T, “Energy Efficient Off-grid novel PVT module for a Rural Health Clinic”, *International Journal of Mechanical Engineering and Technology*, Volume 9, Issue 7, July 2018, pp. 476-488, ISSN: 0976-6359 (**Scopus Indexed**)

INTERNATIONAL CONFERENCES

- C Benin Pratap, Kenny Samson, G Shine Let and G Chandrasekaran, “Smart Maintenance of Continuous Duty Cycle Motors” AICTE Sponsored International E-Conference on Data Analytics, Intelligent Systems, and Information Security (ICDIIS’ 20) organized by Dr.Mahalingam College of Engineering & Technology, Pollachi on 11th -12th December 2020 (**Scopus Indexed**)
- C. Benin Pratap, A. Immanuel Selvakumar, Sai Ramya “Solar power forecasting by an artificial intelligence-based solar radiation forecasting model” 3rd International Conference on Interdisciplinary approach in Science and Technology (ICIAST’19) organized by Association for Inter-disciplinary Research in Science and Technology, National University of Singapore, Singapore on 25th – 27th May 2019.
- C. Benin Pratap, G. Shine Let “Feasibility Study of Cognitive Radio Network for Smart Grid with Distributed energy Resources” Second International Conference on Interdisciplinary approach in Science and Technology (ICIAST’18) organized by Association for Inter-disciplinary Research in Science and Technology, Colombo, Sri Lanka on 25th – 28th May 2018.

- C. Benin Pratap, Godviya, G. Shine Let, “Smart Reading Aid using Tongue Drive System for Disabled Patients” 2018 IEEE International Conference on Control, Power, Communication and Computing Technologies organized by Vimal Jyothi Engineering College, Kannur on 23rd – 24th March 2018. **(Scopus Indexed)**
- C. Benin Pratap, A. Immanuel Selvakumar, G. Shine Let “Power Quality Enhancement using SHE for non-linear loads in micro grids” International Conference on Interdisciplinary approach in Science and Technology (ICIAST’17) organized by Association for Inter-disciplinary Research in Science and Technology, Baan Sukhawade House, Educational Gardens, Pattaya, Thailand on 19th – 20th May 2017.
- C. Benin Pratap, “Design of a novel PVT system using R600a for efficient utilisation of heat and electrical energy in rural electrification” *International Conclave on Renewable Energy Systems and Technology* organized by Saveetha School of Engineering, Saveetha University, Chennai on 6th – 8th April 2016.
- C. Benin Pratap, “Development of Solar Powered Centrifuge for Blood Analysis in Rural Health Clinics” *International Conclave on Renewable Energy Systems and Technology* organized by Saveetha School of Engineering, Saveetha University, Chennai on 6th – 8th April 2016.
- Birundha Hannah.S, C. Benin Pratap, “A Comparative performance of 3 Φ Multilevel Inverter Topologies” *DRDO sponsored 2nd IEEE International Conference on Innovations in Information, Embedded and Communication Systems* organized by Karpagam College of Engineering, Coimbatore on 19th & 20th March 2015. pp: 1 – 4, ISBN:978-1-4799-6817-6, DOI: 10.1109/ICIIECS.2015.7193266 **(Scopus Indexed)**

LECTURES DELIVERED

- Delivered a lecture “Estimation of Modal Parameters in Solar and Fuel Cells” in FDP-Research Aspects in the Development of Sustainable Energy Solutions on 25th June 2020 organized by Stella Mary's College of Engineering, Kanyakumari District, TamilNadu.
- Delivered a lecture “Advanced Trends in Automotive Electronics” on 15th July 2019 organized by Stella Mary's College of Engineering, Kanyakumari District, TamilNadu.
- Delivered lectures in the two days workshop entitled on “Embedded System and IOT” on 8th - 9th March 2019 organized by GEMS Polytechnic College, Bihar.
- Delivered a lecture in the one day seminar entitled on “New Innovations in Automotive Electronics” on 23rd Oct 2018 organized by AJK College Arts and Science, Coimbatore.
- Delivered a lecture entitled on “Electrical Machines” for EEE students, Karunya Institute of Technology and Sciences, Coimbatore on 12th October 2018.
- Resource person for TEQIP sponsored two days training programme on “Microcontroller Based System Design” on 1st & 2nd Feb 2016 organized by Government Engineering College, Wayanad.
- Resource person for TEQIP sponsored two days workshop on “Industrial Automation and Computer Numerical Control” on 6th & 7th November 2014 organized by Government Engineering College, Wayanad.

- Delivered a lecture entitled “Hydrogen Fuel Cells” on 13th March 2014 during the STTP on “Hybrid Renewable Energy Resources and Systems” organized by Government Engineering College, Wayanad.
- Delivered a lecture in the one day seminar entitled on “Recent trends in Power Electronics” on 31st Jan 2014 organized by AJK College Arts and Science, Coimbatore.

PROFESSIONAL MEMBERSHIPS

- Life member, International Association of Engineers

RESEARCH INTEREST

- Power electronic converter applications for solar PV-based systems
- Renewable Energy
- Electric Vehicle

PERSONAL PROFILE

Date of Joining: 02.07.2007

Designation: Assistant Professor (AGP 8000)

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