

## Faculty Profile



**Mr.C.John De Britto , M.E., (Ph.D).,**  
Assistant Professor– EEE

### **HIGHLIGHTS:**

- Number of Journal Publications: Scopus-6 , Other-15
- H-Index: 2
- Project Funding Received: -
- Patents Published: 21
- Patents Granted: 9

### **PROFESSIONAL LINKS:**

- Scopus ID: 58039506800
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=58039506800>
- Google Scholar ID:  
<https://scholar.google.com/citations?user=1JcxmEMAAAAJ&hl=en&authuser=1>
- Anna University Faculty ID: 3108316
- AICTE Faculty ID: 1-3363789919
- Anna University Supervisor ID: -
- LinkedIn: <https://www.linkedin.com/in/john-de-britto-c-3b849a276/>

### **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 9 YEARS
- Industrial Experience: --

### **AREA OF SPECIALIZATION:**

- Power Electronics and Drives , Renewable Energy

### **Ph.Ds AWARDED WITH DETAILS:**

<b>S:No</b>	<b>Name of Scholar</b>	<b>Title of Thesis</b>	<b>Year of Completion</b>	<b>Full Time/Part Time</b>

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**Ph.Ds GUIDING:**

- **Full Time Scholars: --**
- **Part Time Scholars : --**

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

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**PATENTS PUBLISHED/GRANTED:**

S.No	Title	Type of Patent	Status
1	Multimodal Fuzzy Logic Based Variable Pitch Angle Control System for Wind Turbines.	Indian Utility Patent	<b>Granted on 31-07-2024</b>
2	Road Safety Buzzer System	Indian Design Patent	<b>Granted On 29-12-2022.</b>
3	A Novel IoT Based Multi Head Food Extrusion Utility System	Indian Utility Patent	Published on 17-03-2023. Examination Filed on 10-07-2024
4	A Novel Electric Vehicles Hybrid Renewable Energy Storage Systems	Indian Utility Patent	Published on 26-05-2023.
5	Robotic Surgery Machine	Indian Design Patent	<b>Granted on 07-07-2023.</b>
6	Novel Cloud Based Life-Saving Wearable Device for Hospital Alert Management	UK Design Patent	<b>Granted on 27-06-2023.</b>
7	Portable Nano Grid Solar Power Supply System	Indian Utility Patent	Published on 01-09-2023.
8	Advanced Optimization Model for Coupling Power plant to PV-Wind Electric Vehicles	Indian Utility Patent	Published on 06-10-2023.
9	IoT Based Wearable Health Monitoring Device	Indian Design Patent	<b>Granted on 08-12-2023.</b>
10	Smart Energy Consumption Monitoring Device	Indian Design Patent	<b>Granted on 22-03-2024.</b>
11	IoT Based Noise Pollution Detector	Indian Design Patent	<b>Granted on 15-03-2024.</b>
12.	Venturi Vertical Axis Rooftop Wind Turbine	Indian Design Patent	<b>Granted on 22-03-2024.</b>

13.	Advanced Low Cost Electric Vehicle Modelling System With Lithium Ion Battery	Indian Utility Patent	Published on 23-02-2024.
14.	Artificial Intelligence and Machine Learning Based Online Examination Monitoring System	Indian Utility Patent	Published on 15-03-2024.
15	Optimizing Electric Vehicle Charging By Stochastic Model Predictive Control in Python	Indian Utility Patent	Published on 15-03-2024.
16	Futuristic Rotating Machine for Wind Power Generation	Indian Utility Patent	Published on 15-03-2024.
17	Advanced Automated Controller of Street Light Management Systems	Indian Copyright	Filed on 26-03-2024.Under /scrutiny
18	Industrial IoT for Electrical System	Indian Design Patent	<b>Granted on 12-07-2024.</b>
19	Artificial Intelligence Based Multi-Mathematical Modelling for Manufacturing System and Business Safety Guard	Indian Utility Patent-	Published on 19-04-2024
20	Solar Assisted Robot by Machine Learning	Indian Utility Patent-	Published on 31-05-2024
21	Design Of Innovative Photo Catalyst For Water Purification	Indian Utility Patent-	Published on 26-07-2024
22	Implementation Of Renewable Energy Storage System With ANFIS For Energy Synchronization	Indian Utility Patent-	Published on 09-08-2024
23	Mitigating Electromagnetic Interference In Electronic Systems Using CB,CE, and CC Amplifiers	Indian Utility Patent-	Published on 09-08-2024
24	Morphing Wind Turbine for Optimized Power Generation Through Deep Learning	Indian Utility Patent-	Published on 09-08-2024
25	Implementation Of Distributed Renewable Energy Systems Through Machine Learning By Newton Raphson	Indian Utility Patent-	Published on 19-07-2024
26	Optimizing Electric Vehicle Design Through Driving Force Modelling By Machine Learning	Indian Utility Patent-	Published on 19-07-2024
27	Power Up On Savings : Energy Conservation Strategies For Technical Institutions	Indian Utility Patent-	Published on 26-07-2024
28	Electric Vehicle Modelling Through Machine Learning By Fourier Transform	Indian Utility Patent-	Published on 02-08-2024
29	Recharged Aesthetics : Electric Vehicles Spark A Futuristic Design Revolution	Indian Utility Patent-	Published on 02-08-2024

30	Innovative Cooling For Transformers: Exploring Dual PLC Control Systems	Indian Utility Patent-	Published on 30-08-2024
31	3D Modelling And Printing In Smart Transportation By Deep Learning For Agriculture	Indian Utility Patent-	Published on 30-08-2024
32	Precision Marketing with AI Driven Customer Segmentation	Indian Utility Patent-	Published on 30-08-2024
33	Technique to Correlate EEG and EMG Signal	Indian Utility Patent-	Published on 30-08-2024
34	Deep Learning In Education: From Automated Feedback To Adaptive Tutoring System Using Nvidia Technology	Indian Utility Patent-	Published on 18-10-2024
35	Real Time 3D Visualization Of Calculus Concepts Using High Performance AI Models	Indian Utility Patent-	Published on 18-10-2024
36	Dual Tank Reservoir System	Indian Design Patent	Filed
37	Electric Oven	Indian Design Patent	Filed
38	Multi Directional Water Cooler	Indian Design Patent	Filed
39	Proactive Cyber Security Device	Indian Design Patent	Filed
40	Planetary Exploration Rover	Indian Design Patent	Filed

#### COURSES CERTIFIED:

- Certified in the NPTEL Course on “**Python for Data Science**” On October 2024.

#### ACHIEVEMENTS AND AWARDS:

- ❖ Received “**Best Faculty Award**” for “**Top 10 Patent Holder Award**” at Saveetha Engineering College on the College Day Celebration 03.05.2024.
- ❖ Received **Best Research Excellence Award 2024** for Intellectual Property Right Conclave held at BNM Institute of Technology Bengaluru from 14-03-2024 to 15-03-2024. And Received
- ❖ Received **Best Research Excellence Award 2023** for World Intellectual Property Right Conclave 2023. on the 6th of October 2023 for **Road Safety Buzzer Systems”** .
- ❖ Received “ **Meignanap Poomalai Award**” for Honoring the faculties on behalf of KalaignarM.Karunanithi’s Birthday Celebration - KalaignarinPoomalaiViruthu2023 on 03.06.2023. S/No- **KPA418**.

- ❖ Received **“Painthamizh Aasan Award”** for Honoring the faculties on behalf of PaaventharPainthamizhViruthu2023 on 29.04.2023. **S/No- IC157.**
- ❖ Received **“P.Kakkan Veera Virudhu”** for Honoring the faculties on behalf of DesathinVeeraViruthu2022 by PasumaiVaasal Foundation Dindigul on 15.08.2022. **S./no- 1C018.**
- ❖ Received **“Semmozhisudar Kalaingar Award”** for Ex-chief Minster Dr.Karunanidhi Birthday Celebration 2022 by Pasumai Vaasal Foundation Dindigul on 03.06.2022. **S./no- 1C513.**
- ❖ Received **“MozhiSemmal Award”** for chief Minster Birthday Celebration 2022 by Aram AnbinAdaiyalam on 01.03.2022. **S./no- SVA 240.**
- ❖ Received **“SemmozhiSelvar Award”** for chief Minister Birthday Celebration2022by PasumaiVaasal Foundation Dindigul andKambar Youth Service Centre Krishnagiri. **S.No- 2C050.**
- ❖ Received **“OliVilakkuViruthu”** which is going to be held On24-02-2022 for honouring teachers on behalf of Jeyalalithas Birthday Celebrations from SreeSaksas Academy-Aathur Salem, PasumaiVaasal Foundation DindigulS.No- 1C060.
- ❖ Received **“Gnanaratham Saaral Viruthu”** On 14-11-2021 for honouring teachers on behalf of Bharathiyars Birthday Celebrations from Sivakarunyam Events Chennai, Pasumai Vaasal Foundation Dindigul. **S.No- 1C261.**
- ❖ Received **“Nall Aasan Venpura Viruthu”** On 14-11-2021 on behalf of Nehrus Birthday Celebrations from Pasumai Vaasal Foundation Dindigul **S.No- 2C10**
- ❖ Received **“Kalvi Thamiventhar Viruthu”** On 05-09-2021 for honoring the teachers On teachers day for the excellence of dedicating service in teaching field by PasumaiVaasal Foundation Dindigul and Kamar Youth Service Centre Krishnagiri.**S.No- IC323.**
- ❖ Received **“Senbagaraman Viruthu”** On 15-08-2021 for the excellence of service in teaching field by PasumaiVaasal Foundation Dindigul and National Public Rights Scheme Chennai **-S.No –IC467**
- ❖ Received **“Arivu Virutcham Viruthu”** On 16-06-2021 by Pasumai Vaasal Foundation **“S.No –IC2021/ 172.**
- ❖ Received **“Young Scientist Award”** by VDGGOOD Technology Ooty On 04<sup>th</sup> and 5<sup>th</sup> June 2021 and received 1 year membership from this association.
- ❖ Received **“ Thesathin Sirpi Viruthu”** by Aram Anbin Adaiyalam Groups On 05-06-2021.
- ❖ Received **“Kalaingar Muthamizh Viruthu”** Organized by Pasumai Vasal Foundation and Karunyam Trust and Olichudar Seva Trust from 10-05-2021 to 16-05-2021.

- ❖ Received **“MENTOR OF THE YEAR AWARD”** with **16,50,600** Votes through HUMCEN AWARDS- “Honoring Human Centered Innovations” Chennai on 03-05-2021.
- ❖ Received **“Asiriya Ratna Award”** On 01-05-2021 for the Excellence of Service in Teaching field by the Celebration of Tamil New Year and Dr.Ambedkar Birthday Celebration by Aram Anbin Adaiyalam group.
- ❖ Received **“Kalvi Ratna Viruthu”** On 29-08-2020 for the Excellence of service in teaching period from Aram Anbin Adaiyalam group by the **Jetlee Book of World Records**.
- ❖ Received **“Teaching Excellence Award”** On 05-09-2020 for the outstanding contribution in education by **Grand Asian Book of World Record**.
- ❖ **“Faculty Coordinator Award”** from District Rotaract Council on 31-01-2020 at Guindy Race Club Chennai on ENVISION Pre-conference Programme.
- ❖ **“Faculty Coordinator Award”** on Annual District Rotaract Pre-Conference by District Rotaract Council On 16-02-2019.
- ❖ EPIC Annual District Rotaract conference **“Support and Contribution Award”** On 10.02.2018 and 11.02.2018 at Chettinad vidhyashram, RA puram, Chennai.
- ❖ **“Faculty Coordinator Award”** from Rotaract Club of Chennai sponsored by rotary club of madras for 13<sup>th</sup> DRR visit annual awards function On 26.05.2018 at Indira Nivas, Uthandi.
- ❖ **“Faculty Coordinator Award”** from District Rotaract Council 2017-18, Rotaract Club of Chennai along with Rotaract Club of Loyola College On 26.01.2018 at Loyola College Chennai.

#### **SPECIAL SESSIONS DELIVERED:**

- Delivered a Seminar to Jesrusalem College of Engineering on 11.12.2024 on **“ Sensors in Automobiles”**
- Delivered a One day Webinar to Pavai Engineering College on 07.08.2024 on **“Insights to Intellectual Property Rights”**
- Delivered Lecture as Keynote Speaker on **“A Novel Electric Vehicles Hybrid Renewable Energy Storage Systems”** at Intellectual Property Right Conclave held at BNM Institute of Technology Bengaluru from 14-03-2024 to 15-03-2024.
- Delivered Lecture on **“ Research Scope on Patent Filing”** at Saveetha School of Nursing 2023, was held at School of Nursing.

- Delivered lecture on **“Recent Trends in Patent Filing” in the WORLD INTELLECTUAL PROPERTY RIGHT CONCLAVE 2023**. And Received **BEST INDIA RESEARCH AWARD 2023 for Road Safety Buzzer Systems” on 6-10-2023 held at New Delhi**.
- Delivered Lecture on **“ Patent Filing for Electrical engineers”** Vishwa IP Conclave 2023, was held at VIIT, Pune on November 24th and 25<sup>th</sup> 2023.
- Delivered a Lecture on **“Importance of Patent Filing for Higher Education”** at Annai Violet Arts and Science College, Ambattur Chennai on 22-08-2023
- Delivered a Guest Lecture on **“Recent Trends in Intellectual Property Rights”** through online at Erode Sengunthar Engineering College on 06-07-2023.
- Delivered a lecture on **“Industry, Innovation, Infrastructure”** on the 18 days **World Peace Summit-2023** Conducted by Vishwa Humanity United International Royal Council from 1-05-2023 to 18-05-2023.
- Delivered a Keynote session on **“IPR & Recent Trends on Electric Vehicle with Power Electronics”** in two-days **“Symbiclave 2023”**: India’s First Skill-Based Patent Conclave”, on May 5-6, 2023. From Symbiosis University of Applied Sciences, Indore. India.
- Delivered a Online webinar on **“Power Electronics for Electric Vehicle”** on 16-03-2023 through Business Rojgar Youtube channel.
- Delivered a lecture on “Programmable logic controllers and SCADA” in the Faculty Development Training Programme On **“Industrial Automation Using IOT”** On 20.06.2019 to 24.06.2019 at Vel Tech High Tech Dr.Ranagrajan Dr.Sakunthala Engineering College.
- Delivered a lecture on **“3 Phase Power Systems”** for the One week Faculty Development Training Programme On “EE8501-Power System Analysis” from 20.05.2019 to 25.05.2019 at Jerusalem College of Engineering Chennai.
- **Judge** for the Evaluation of **“E-cube event- project presentation”** of our final year a student which was held on 16.04.2021 &17.4.2021 by the Department of Electrical and Electronics Engineering at Meenakshi Sundararajan Engineering College Kodambakkam, Chennai.
- Delivered a Lecture on **“IOT for Electric Vehicle”** for the 15 days Internship Program organized by Institute of Innovations Tiruvannamalai On 29-05-2021.

## CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- M. Thirumalai , ulagammai m , SURESH T D, **JOHN DE BRITTO C**, Hemalatha R, Yuvaraj T, Presented a Paper entitled “Optimization of Power Loss Mitigation in Distribution Systems Using Hunter-Prey Optimization Algorithm for Multiple Types of DFACTS” in the **1st International conference on Power Energy and Secure Smart Technologies on 14-12-2024.**
- SURESH T D M. Thirumalai , ulagammai m, Hemalatha R, **JOHN DE BRITTO C**, Yuvaraj T, Presented a Paper entitled Optimal Placement of Renewable Based DG and DSTATCOM in Distribution Systems to Alleviate the Effects of EVCS in the **1st International conference on Power Energy and Secure Smart Technologies on 14-12-2024.**
- ulagammai m, Hemalatha R, **JOHN DE BRITTO C**, SURESH T D M. Thirumalai , Yuvaraj T, Presented a Paper entitled “Intelligent Residential Energy Control with Demand Response Incorporating Renewable Power Sources and Electric Vehicle Integration” in the **1st International conference on Power Energy and Secure Smart Technologies on 14-12-2024.**
- **JOHN DE BRITTO C**, SURESH T D, Hemalatha R, M. Thirumalai , ulagammai m, Yuvaraj T, Presented a Paper entitled “Strengthening Resilience in Distribution Networks through Microgrid Development and Integration of Distributed Energy Resources Using the Group Instruction Optimization Algorithm in the **1st International conference on Power Energy and Secure Smart Technologies on 14-12-2024 .**
- Hemalatha R, **JOHN DE BRITTO C**, , Yuvaraj T, ulagammai m SURESH T D M. Thirumalai Presented a Paper entitled “Reliability Analysis of Distribution Systems with Solar-Based DG and Capacitor Integration Using the Water Cycle Optimization Algorithm” in the **1st International conference on Power Energy and Secure Smart Technologies on 14-12-2024.**
- Presented a Paper entitled " Challenges and Opportunity for 100% Renewable Energy Grids: Managing Variable Power Sources" in the 2024 International Conference on Power, Energy , Control and Transmission Systems at SRI SAIRAM ENGINEERING COLLEGE on 8-10-2024.
- **John De Britto C**, Dr.R.Senthilkumar, Dr.Anoop Paper Presented entitled “**An IoT based Traffic Light Controller with LiFi**” held at 5NANO2023 at VISAT Engineering College on 27<sup>th</sup> and 28<sup>th</sup> April 2023.
- **John De Britto C**, Dr.Jesu Jeyarin, K.Sasikumar, Dr.J.Nithisha, E.Fenil Paper Presented entitled “**Digital DG-FinFET based VLSI Multiplexers for Image Compression**” held at iCRAISETM- 2023- Solamalai College of Engineering on 21<sup>st</sup> and 22<sup>nd</sup> April 2023.



- **John De Britto C**, Dr.S.Nagarajan, Dr.R.Senthil Kumar Paper Presented entitled **“Battery Storage Based Convict Tracking of Embedded Platform”** held at icaccabt2020 -KPR Institute of Engineering and Technology Coimbatore on 11<sup>th</sup> and 12<sup>th</sup> December 2020.
- Dr.I.Barani Lingesan, **John De Britto C**, Andrew Faustus, Arivukarasu, Anbasrasan, Dixson, Paper Presented entitled **“An Underwater Wireless Power Transfer Systems”** held at icaccabt2020 -KPR Institute of Engineering and Technology Coimbatore on 11<sup>th</sup> and 12<sup>th</sup> December 2020.
- **John De Britto C**, Dr.S.Nagarajan Paper presented entitled **“Flexible Power Regulation and Modeling of Renewable Energy System with Distributed Energy Generation System”** in IECET 2020 at Surendra Institute of Engineering and management Siliguri, West Bengal On 16-10-2020.
- **John De Britto C**, Dr.S.Nagarajan Paper Presented entitled **“High Performance Quasi Z-Source Parallel Resonant DC-DC Converter for Hybrid Energy Resources”** at ICPES 17-Velammal College of Engineering and Technology, Madurai. (December 2017)
- **John De Britto C**, Paper Presented entitled **“Analysis Of IGBT Switches In Boost Converter Based On Three State Switching Cell With PFC”** at ICONSTEM 17-Jeppiaar Engineering College.(March 2017)
- **John De Britto C** Presented a paper entitled **“Current-Fed Interleaved Phase-Modulated Inverter with Cascaded Multilevel Photo Voltaic Power System”** at national conference NCEDES’15, RVS college of engineering and technology, Coimbatore on 06-03-2015.
- Participated in the 6 days ATAL Sponsored FDTP on **“ Electric Vehicles: Technological Innovations and Market Trends”** on 2-12-2024 to 7-12-2024 at SEC.
- Participated in the 5 Days FDP on **“Sustainable Lighting Design in Modern Industry Using DIALux Evo”** from 31.01.2024 to 04.02.2024 at SEC.
- Participated in the 6 days FDTP on **“Power Electronics for Renewable Energy Systems”** held at St.Josephs Institute of Technology from 01-07-2024 to 6-07-2024.
- Participated in the Webinar on **“Digital Detox Awareness Survey”** on 18-05-2024.
- One Week Faculty Development Program on **“Recent Trends In Multidisciplinary Research”** IEEE Computer Society Pune Local Chapter, from 29-April-2024 to 03-May-2024.
- Participated in the One week Faculty Development Programme on **“ Deep Learning Techniques for Social Media Analytics”** from 15.04.2024 to 20.04.2024. at Kongu Engineering College Perundurai.

- Participated in the 1 day Industrial Visit at CHEMIN **“Controls & Instrumentation Private Limited”** at Puducherry on 03-04-2024.
- Participated in the webinar on **“Your First Patent is Our Dream”** presented by IGen Innovation machine SDG9 Innovation and Infrastructure held on 16.03.2024.
- Participated in the One-week National Level Online Faculty Development Programme on **“Aiming Towards 3D’s in Electrical Engineering”** from 11-03-2024 to 15-03-2024
- Participated in the One Day Skill Development Program on **“Essentials of Patents”** organized by Innovative Technology Enabling Center - InTEC, CSIR-Institute of Minerals and Material Technology (IMMT), Bhubaneswar on March 06, 2024.
- Participated in the 5 days FDTP on **“Issues, Opportunities, Challenges in Smart Grid”** from 20-02-2024 to 24-02-2024. At The Kavery Engineering College ,Salem.
- Participated in the 5 days FDP on **“Sustainable Lighting Design in Modern Industry using DIALux Evo”** Organized by department of EEE Saveetha Engineering College from 31.01.2024 to 04.02.2024.
- Participated in the 1 week FDTP on **“Trends in 5G Networks, Applications in Biomedical Engineering”** at Ramco Institute of Technology from 18-12-2023 to 23-12-2023.
- Participated in the 1 Week FDTP on **“The Art of Research and Development”** by S.A.Engineering College Chennai from 26-12-2023 to 30-12-2023.
- Participated in the online Quiz on **“Teachers day”** 05-09-2023 Organized by SAMMATFOUNDATION (R) , Vijayapur , Karnataka.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –VIII”** conducted by Karpagam College of Engineering Coimbatore on 03-09-2023.
- Participated in the National Level Online Quiz **“Independence day 2023”** on 15-08-2023 SAMMAAT foundation.
- Participated in the **“IP Awareness Training programme”** on 10-08-2023 by National Intellectual Property Awareness Mission(NiPAM).
- Participated in the Quiz on **“Quality and Standards”** Organized by Bureau of Indian Standards and MyGov on 14-08-2023.
- Participated in the online Quiz on **“World Nature Conservation Day 2023”** Organized by SAMMAT Foundation on 24-07-2023.

- Participated in the 5 days e-faculty development programme on **“Pharmaceutical Innovations and Protection Strategies”** Organized by 7 hills college of Pharmacy Tirupati from 18-7-2023 to 22-7-2023.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –VII”** conducted by Karpagam College of Engineering Coimbatore on 20-08-2023.
- Participated in the **“World Nature Conservation”** Day Quiz 2023 on 23-07-2023.
- Participated in the ten days virtual International Phygital FDP On **“Recent Trends In Multidisciplinary Research”** programme conducted by Department of Business Administration at SRM Institute of Science and Technology from 07-07-2023 to 18-07-2023.
- Participated in the two week national level virtual workshop” on **“Advanced Research Methodology”** conducted by Department of Commerce , Information system and Management, at SRM Institute of Science and Technology” from 03-07-2023 to 18-07-2023.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –V”** conducted by Karpagam College of Engineering Coimbatore on 23-07-2023.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –IV”** conducted by Karpagam College of Engineering Coimbatore on 09-07-2023.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –III”** conducted by Karpagam College of Engineering Coimbatore on 25-06-2023.
- Participated in the one week e- Workshop on **“Innovation and Intellectual Property Rights”** organized by Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar during June 12-17, 2023.
- Participated in the online Knowledge Quiz Series **“Electric Vehicle Quiz-II”** conducted by Karpagam College of Engineering Coimbatore on 11-06-2023.
- Participated in the online **“Knowledge Quiz Series on Electric Vehicles –I”** Conducted by Karpagam College of Engineering Coimbatore on 28-05-2023.
- Participated in the online symposium **“Optimization of GMR Sensor Location on Induction Motor for Online Rotor Fault Prediction”** INTI International University on 31-05-2023.

- Participated in the one day webinar on “ **Power Electronics For Electric Vehicles-2023**” organized by Department of Electrical and Electronics Engineering, Shreenivasa Engineering College, Dharmapuri on 24.02.2023.
- Participated in the online workshop on “**Thesis Writing Skills**” from 15.12.2022 to 18.12.2022 organized by Nuhianwali Education Society.
- Participated in the Five days online FDP Programme on “**Real Time Applications of OPAL-RT in Smart Grids**” at Vellore Institute of Technology Chennai from 17-10-22 to 21-10-22.
- Participated in the seminar on “**Overview of IPR and Patent filing Procedure**” Organized by IPR Cell Saveetha Engineering College Chennai on 27-08-2022.
- Participated in the Six days online FDP Programme on “**EE8501-Power System Analysis**” at Sri Ramakrishna Engineering College Coimbatore from 11.07.2022 to 16.07.2022.
- Participated in the Five days online FDP Programme on “**Future Trends & Advances in Electrical Science**”, from 04<sup>th</sup> to 08<sup>th</sup> April 2022, conducted by Department of Electrical and Electronics Engineering, SJBIT, Bengaluru.
- Participated in the short term Course on “**Educating the Millenials**” Organized by Saveetha Teaching Learning Centre from Feb 2022 to April 2022.
- Participated in the short-term course on “**Communication Development**” Organized by Saveetha Teaching Learning Centre from Jan 2022 to March 2022.
- Participated in the online Faculty Development Programme on “**E-Governance Initiatives**” by Bangalore Institute of Technology form 18-04-2022 to 22-04-2022
- Participated in the UGC tried Sponsored training online programme on “**Environmental Sustainability and Research Ethics**” from 21.3.2022 to 23.3.2022 by the department of Printing technology –Avinashilingam Institute for Home science, Coimbatore.
- Participated in the 5 days FDTP on “**Controller Design and Implementation for Renewable Power Generation systems (Hydro, Wind and Solar systems)**” from 7-3-2022 to 11-03-2022 at NIT Meghalaya.
- Participated in the Two Weeks AICTE online FDP on “**Trends and Challenges in EV Ecosystem**” at KCG College of Technology Chennai from 14-02-2022 to 01-03-2022.
- Participated in the 6 days FDTP on “**Emerging Advancement of Wireless Communication and Applications of Power Electronics in Smart Grid System**” Organized by Jeppiaar Institute of Technology held from 28-02-2022 to 05-03-2022.

- Participated in the **“Science and and Tamil Conclave”** by Institute of Engineers (IEI)-Tiruvallur Local Centre TVLC on 23.02.2022.
- Participated in the Webinar on **“Research Challenges in Optical Communication”**, organized by the Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore on 18.02.2022.
- Attended 6 days FDTP on **“EE8601-Solid State Drives”** at University College of Engineering Thirukkuvalai from 31-01-2022 to 05-02-2022.
- Participated in the **“IP Awareness Training Programme”** under National Intellectual Property Awareness Mission On 29-01-2022. Organized by Intellectual Property Office India.
- Participated in AICTE Sponsored Six days Online Short Term Training Program (Phase III) On **“Electric Mobility: Development, Integration and Design Challenges”** Organized by Department of Electrical and Electronics Engineering, JCE from 03<sup>rd</sup> May to 08<sup>th</sup> May 2021.
- Attended AICTE sponsored online two weeks Faculty Development Programme on **“Trends and Challenges in Power Converters and Control-Slot II”** Organized by Department of Electrical Electronics Engineering, College of Engineering Guindy, Anna University, Chennai from 04.05.2021 to 18.05.2021.
- Participated in the International Webinar on **“Industrial IoT”** organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 24/10/2020.
- Participated in the National Webinar on **“Electric Vehicle”** organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 10/10/2020.
- Participated in the online Faculty Development Training Programme on **“Recent Challenges in Industrial Automation & Embedded System”** from 06.07.2020 to 11.07.2020.
- Participated in the covid-19 Awareness Programme **“Dawn in the Dusk”** Organized by Department of Electrical and Electronics Engineering, St.Josephs College of Engineering, Chennai on 5/07/2020.
- Attended 5 days Faculty Development Training Programme On **“Industrial Automation Using IOT”** On 20.06.2019 to 24.06.2019 at Vel Tech High Tech Dr.Ranagrajan Dr.Sakunthala Engineering College.
- Attended Anna University Approved One week Faculty Development Training Programme On **“EE8501-Power System Analysis”** from 20.05.2019 to 25.05.2019 at Jerusalem College of Engineering Chennai.

- Attended Anna University Approved One week Faculty Development Training Programme On **“EC8252-Electronic Devices”** “at Jerusalem College of Engineering Chennai from 27.11.2018 to 03.12.2018.
- Attended a workshop on **“Research Scopes in Fluid Mechanics and Heat Transfer”** at Saveetha School of Engineering On 19-11-2018.
- Attended **“The Guinness World Record Attempt Largest Organ Donation Awareness Programme”** On 24 October 2018 at JEC.
- Attended a workshop on **“EMTP-RV for Power System Applications”** Loyola-ICAM, Chennai, and 08.12.2017.
- Attended Anna University Approved One week Faculty Development Training Programme On **“EE8251-Circuit Theory”** “at Jerusalem College of Engineering Chennai from 27.11.2017 to 03.12.2017.
- Attended a Top Engineers workshop on **“Power Electronics”** at IAEIS Chennai, 12.08.2017.
- Attended a workshop on **“Embedded Systems”** at MIT, Chennai On 2013.
- Attended a workshop on **“Image Processing”** at MIT, Chennai On 2013.
- Attended a seminar on **“Opportunities and Challenges in Renewable Power Generation”** at CAPE Institute of Technology, Nagercoil on 2013.
- Attended a seminar on **“MATLAB and ANDROID”** at SSN, Chennai on 31-07-2013.

#### PROFESSIONAL MEMBERSHIPS:

S.No	Membership Name	Membership No	Duration
1	Computer Scientist Awards	<b>Editorial Member</b>	<b>2024-2025</b>
2	Blue Eyes Intelligent Engineering and Sciences Publications	<b>Editorial Member</b>	<b>From 2021-2022</b>
3	IEI- Institute of Engineers	<b>AM1811692</b>	<b>29-06-2018 to Till Date</b>
4	CharlesWalters Society for Innovation and Research	<b>CWSIR/ IDC/21112020/ 609</b>	<b>22-03-2020 to Till date</b>
5	International Association of Engineers- IAENG	<b>274890</b>	<b>04-01-2021 to Till date</b>
6	Institute For Engineering Research and Publication (IFERP )	<b>PM49173568</b>	<b>05-01-2021 to Till date</b>
7	IAEEEE- International Association of Electrical Electronics and Energy Engineering	<b>71050225</b>	<b>09-02-2022 to Till date</b>

8	Internet Society Member	2243662	23-02-2022 to Till date
9	IEEE Sensors Council	98290570	25-02-2022 to Till date
10	All India Council For Technical Skill Development	65312	22-02-2022 to Till date
11	All India Professor Group	5035	13-10-2022 to Till Date
12	IITSR-Research Institute	512	10-04-2023 to Tilldate
13	Tamilnadu All Government College UGC Qualified Guest Lectures Association	691	30-04-2023 to Tilldate
14	Tamilnadu Engineering Faculty Association	239	04-04-2023 to Tilldate
15	Education Research and Development Association(ERDA)	ERDA/INDLM/442/0723	12-07-2023 to Tilldate
16	State President Tamilnadu- Education Research and Development Association	ERDA/APP/107/0923	01-09-2023 to Tilldate.

**OTHER DETAILS (If any):**

**Book Publications:**

S.No	Name of the Book	ISBN No	Date of Publication	Publisher Name
1	Digital Image Processing	978-81-969450-1-5	10-02-2024	Global Aasan Research Publishers

**Book Chapter Publications:**

S.No	Name of the Book	Title of the Chapter	ISBN No	Date of Publication	Publisher Name
1	Emerging Research in Engineering and Management	Optimization of Load Through Grid and PV Energy Integration System	978-93-90856-12-1	02-06-2021	Anvi Books and Publishers
2	Emerging Research in Engineering and Management	Internet of Things Based Ambiance Air Excellence Monitoring Systems	978-93-90856-12-1	02-06-2021	Anvi Books and Publishers
3	Advances in Computing, Communication, Automation and Biomedical Technology	Battery Storage Based Convict Tracking of Embedded Platform  <a href="https://doi.org/10.46532/978-81-950008-1-4">https://doi.org/10.46532/978-81-950008-1-4</a>	978-81-950008-0-7	26-12-2020	IJAICT India Publications

## Journal Publications:

- V.Tharakeswari, M.Kameswari, Sripriya Ranganathan, **John De Britto C** , “A Novel Approach to Hexagonal Fuzzy Number Ranking in Multi Objective Fuzzy Linear Programming Problem Solving” in Advances in Nonlinear Variational Inequalities in ISSN : 1092-910x. Vol 28 , No 2s(2025).
- Yuvaraj, T., Prabakaran, N., **John De Britto, C.**, ... Salem, M., Nazari, M.A. “Dynamic Optimization and Placement of Renewable Generators and Compensators to Mitigate Electric Vehicle Charging Station Impacts Using the Spotted Hyena Optimization Algorithm “ Sustainability (Switzerland)This link is disabled., 2024, 16(19), 8458
- **John De Britto C**, Aditya Patil, Sanket Ramakant Lodha, Vaisali Patil, Sudhir Chitnis “Boosting Quantum Computing Performance : A Cache-Based Solution for Enhanced Scalability” Published in the **Obstetrics and Gynaecology Forum on 20-06-2024.**
- **John De Britto C**, Dr.R.Senthil kumar, Dr.Anoop “ An IoT Based Traffic Light Controller with LiFi” Published in the **NanoWorld Journal** on 22-12-2023. <https://doi.org/10.17756/nwj.2023-s5-029>.
- **John De Britto C**,Dr.S.Nagarajan, Dr.R.Senthil kumar “Effective Design and Implementation of Hybrid Renewable System using Convex Programming” in Annexure Journal List and SCIE Indexed Journal –**International Journal of Green Energy**. December 2022.<https://doi.org/10.1080/15435075.2022.2160634> .
- Dr.VenkateshS, **John De Britto C**, Dr.P.Subhashini, Dr.Somasundaram K .Paper Accepted for Publication entitled “Image Enhancement and Implementation of CLAHE Algorithm and Bilinear Interpolation” In the Annexure 1 and SCIE & Scopus indexed Journal -**Cybernetics and Systems UCBS**. November 2022. <https://doi.org/10.1080/01969722.2022.2147128> .
- ❖ **John De Britto C**, Dr.S.Nagarajan, Dr.R.Senthilkumar “An Optimized Tuning of PID Controller Using Bio-Inspired Algorithm for Controlling Voltage and Current in the Photovoltaic System” Paper Published in Anna University Annexure-I Indexed Journal **Neuro Quantology**, Jul 2022, Volume 20, Issue 7, Page 2834-2841 | doi: [10.14704/nq.2022.20.7.NQ33362](https://doi.org/10.14704/nq.2022.20.7.NQ33362).
- ❖ Dr.P.Subhashini, **John De Britto C**, Dr.M.C.Babu, Muthuvairavan Pillai N, Akhil Nair R, A.Vidhya, “Rainfall Forecasting Model Using Artificial Neural Network” Paper Published in Anna University Annexure-I Indexed Journal **NeuroQuantology**, Jul 2022, Volume 20, Issue 7, Page 2842-2850 | doi: [10.14704/nq.2022.20.7.NQ33363](https://doi.org/10.14704/nq.2022.20.7.NQ33363).
- ❖ **John De Britto C**, Loganathan V, Dr.ThaiSubha, Elakkiyavendan “Energy Supervision System for Ship Hybrid Power System Based on Renewable Energy Resources” Paper Published in Anna University Annexure-I Indexed Journal **Neuroquantology**. June 2022 Volume 20. Issue 6. Page 9939-9945. doi: [10.14704/nq.2022.20.6.nq22969](https://doi.org/10.14704/nq.2022.20.6.nq22969).



- ❖ **John De Britto C, Dr.S.Nagarajan “A Novel Solution for Stable and High Quality Power for Power system with High Penetration of Renewable Energy Transmission by HVDC”** Paper presented in the **International Conference on Modeling, Simulation and Intelligent Computing (MOSICOM 2020)** through Skype held at Dubai On 30-01-2020 and this paper Published in Scopus –**SPRINGER Journal-Algorithms for Intelligent Systems** on 31-07-2020.
  
- ❖ M.Pradeep , S.Sathishkumar ,**C.John de britto** , A.T.Sankara Subramanian **“Recognition of fault and security of three phase induction motor by means of programmable logic controller”** Paper Published in the **Scopus Indexed Journal. IOP Conf. Series: Materials Science and Engineering**623 (2019) 012017 IOP Publishing doi:10.1088/1757-899X/623/1/012017. On **October 2019**.
  
- ❖ Andrew Faustus, **John De Britto C, “Grid Integration of Hybrid Generation for an Alternative Energy Power System with Improved Power Quality** “Paper Published in the **International Journal for Scientific Research and Development**. ISSN 2321 0613.On Volume 7, Issue 6, August 2019.
  
- ❖ **John De Britto C, Dr.S.Nagarajan, Nisha.P “Design and Analysis of Micro-grid fed by renewable Energy Sources for Energy saving Applications”** Paper Presented in the International Conference **ICONCIS-19**held at Jeppiaar Engineering College, Chennai.(**March 2019**) and Published in**Journal of Applied Science and Computations**. ISSN:1076-5131.
  
- ❖ **John De Britto C, Dr.S.Nagarajan “High Performance Quasi Z-Source Resonant Converter with Hybrid Energy Resources for Rural Electrification”** Paper Presented in “14<sup>th</sup> World Malaysia conference on Applied Science, Engineering and Technology (WCASET-18)” through skype Presentation On 22-11-2018 and Published in **“International Journal of Engineering and Advanced Technology”**ISSN:2249-8958,Volume-8,Issue-2C2,**December 2018-SCOPUS indexed Elsevier Journal**).
  
- ❖ **John De Britto C, Dr.S.Nagarajan “Performance Analysis of four switch three phase BLDC motor drive using single current sensor with photovoltaic based fuzzy logic control”**-Paper presented in the International Conference **ICONSET-18** held at Jeppiaar Engineering College, Chennai.(**March 2018**).and Published in **IAETSD Journal For Advanced Research In Applied Sciences**. ISSN No: 2394-8442.Volume 5, Issue 4, (**April/2018**).
  
- ❖ **John De Britto C,**Paper published entitled **“Design of bidirectional adapter using Zeta converter with Power Factor Correction “International Journal of Electronic Communication and Engineering**. ISSN: 2348 – 8549.(2016)
  
- ❖ **John De Britto C, Paper published entitled “High Voltage Testing of Gas (SF6) Insulated Substation “International Journal of Technology and Engineering**. ISSN: 2455 – 4480.(2016).
  
- ❖ **John De Britto C, Paper published entitled “Mitigation of Power Quality Problems by using DSTATCOM with Fuzzy based DQ vector control Algorithm” International Journal of Electrical and Electronics Engineering**. ISSN: 2348-8379,(**October 2016**).DOI:[10.14445/23488379/IJEEE-V3I10P102](https://doi.org/10.14445/23488379/IJEEE-V3I10P102).

- ❖ **John De Britto C**, Paper published entitled “**PMSM for Wind Power Generation Using A Boost Regulator and PID Controller with Proposed MPPT Algorithm**” **International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering**.ISSN: 2278 – 8875.(July 2016).DOI:10.15662/IJAREEIE.2016.0507082
- ❖ **John De Britto C**, Suresh Kumar R, Paper published entitled“**Design of single phase Z-source buck boost matrix converter**” Paper Presented in the 4<sup>th</sup> National level Conference on 11<sup>th</sup> and 12<sup>th</sup> March 2015. Also published in**GlobalJournalofEngineeringScienceandResearches**.ISSN:2348-8034.( Jan 2015)
- ❖ **John De Britto C**, Suresh Kumar R, Paper published entitled “**A Robust Bidirectional Adapter with Charging and Emergency Discharging Applications Using PID Controller**” **International Journal of Applied Engineering Research**.ISSN:0973-4562.(Annexure-II) (2015).
- ❖ Arun P M, **John De Britto C**, Ganesh Kumar M, Puthiyaraj G, Sarada Devi S, Paper published entitled “**Foreground face detection in Three Dimensional Using Embedded SoC platform**”**International Journal of computing and applications**.ISSN:0973-5704 (2013).