

Journal Publications:

- 1 Simulation and analysis of T-PUC9 inverter fed single phase induction motor application
I. William Christopher, Delsa Davis, P. Infanto Robbin, Jovita Dixit and A. Asif Iqbal
Journal of Physics: Conference Series (JPCS), Vol.1706, December 2020, ISSN: 1742-6596, Published by IOP Publishing Ltd. **(Indexed in Scopus and Web of Science (CPCI-S))**.
- 2 Nine Level Symmetrical Modified Multi-Level Cascaded H-Bridge Inverter
V. Karthikeyan, **I. William Christopher**, V. Jamuna,
International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 7s, (2020), pp. 2532-2537.
ISSN: 2005-4238, Published by SERSC.
- 3 Yield Analysis of 20kW Grid-Tie Roof-top Solar Photovoltaic Unit in Tamil Nadu
V. Karthikeyan, R. Elavarasi, **I. William Christopher**,
TEST Engineering and Management, Volume-82, January-February 2020, pp.15685-15689, ISSN: 0913-4128, Published by: The Mattingley Publishing Co., Inc.
- 4 Logic Control of Static Excitation System in Power Alternators using PLC
Dr. I. William Christopher, G.S. Ashwinraj, P. Jeneve Vinolia, M. Kaviya,
International Journal of Engineering and Advanced Technology (IJEAT), Volume-8, Issue-6, August 2019, pp.3971-3978, ISSN: 2249-8958 (Online), Published by Blue Eyes Intelligence Engineering and Sciences Publications **(Scopus Indexed)**.
- 5 3-Switch Single-Phase Inverter for PV System
V. Birunda Mary, **Dr. I. William Christopher**, Dr. G. Themozhi,
Elsevier Energy Procedia, vol.117, 2017, pp.674–681, Published by Elsevier Ltd, (ISSN: 1876-6102), Available online at www.sciencedirect.com. **(Scopus Indexed)**.
- 6 Execution of AT89S52 Microcontroller Based Single-Phase Simplified Nine-Level Inverter fed Induction Motor
Dr. I. William Christopher & Dr. R. Ramesh,
Journal of Electrical Engineering (JEE), vol.15, no.3, 2015, Article 15.3.2, Politehnica Publishing House, Romania, (ISSN: 1582-4594). **(Scopus Indexed)**.
- 7 Small Wind Energy Conversion System with PMSG Using Matlab Simulink
Dr. I. William Christopher & M. R. Sathesh,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.10, no.42, 2015, pp.30825- 30828, Research India Publications, (ISSN: 0973-4562). **(Scopus Indexed)**.
- 8 A User Authentication Protocol Resistant to Security Breach Using Graphical Passwords,
S. Roselene Rebecca & **Dr. I. William Christopher**,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.10, no.42, 2015, pp.30913- 30917, Research India Publications, (ISSN: 0973-4562). **(Scopus Indexed)**.
- 9 Design of Horizontal-Axis Wind Turbine (HAWT) Blade for Indian Low Wind Speed Regimes,
P. K. Praveen Kumar, Dr. K. Vasudeva Karanth & **Dr. I. William Christopher**,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.10, no.42, 2015, pp.30829- 30834, Research India Publications, (ISSN: 0973-4562). **(Scopus Indexed)**.

- 10 Numerical Simulation and Development of Aerodynamic Model for Darrieus Rotor Vertical Axis Wind Turbine,
E.Avinash, Dr. K Vasudeva Karanth & **Dr.I.William Christopher**,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.10, no.42, 2015, pp.30857- 30863,
Research India Publications, (ISSN: 0973-4562).(**Scopus Indexed**).
- 11 Single-Phase Modified 13-level Inverter with Reduced Switches,
Dr.I.William Christopher & Dr.S.Ramamoorthy,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.9, no.22, 2014, pp.6861-6866,
Research India Publications, (ISSN: 0973-4562).(**Scopus Indexed**).
- 12 Modeling and Analysis of Photovoltaic Module,
Dr.I.William Christopher & S.Prakash,
International Journal of Applied Engineering Research (IJAER) Special Issue, vol.9, no.22, 2014, pp.6867-6872,
Research India Publications,(ISSN: 0973-4562).(**Scopus Indexed**).
- 13 Modelling and Simulation of Single Phase Fifteen-level Inverter with Reversing Voltage,
I.William Christopher, Dr.R.Ramesh, P.Sathiyabama, R.Pavithra, G.Ramyaselvi, & P. Saranya,
International Journal of Scientific & Engineering Research (IJSER), vol.5, no.4, 2014, pp.174-177, Research
Publication, France, (ISSN: 2229-5518).
- 14 1-Phase Induction Motor Control Using Modified H-Bridge 11-level Inverter,
I.William Christopher & Dr.R.Ramesh,
Applied Mechanics and Materials, vol. 622, 2014, pp 211-217, Trans Tec, Publications,
Switzerland,(ISSN: 1660-9336).(**Scopus Indexed**).
- 15 Simulation Analysis of PV Based Single-Phase Modified H-Bridge Eleven-Level Inverter,
I.William Christopher & Dr.R.Ramesh,
Research Journal of Applied Sciences, Engineering & Technology, vol.7, no.16, 2014, pp.3362-3368, MAXWELL
Science Publication, United Kingdom, (ISSN: 2040-7459) (**Scopus Indexed**).
- 16 Grid Connected Solar PV system with SEPIC Converter Compared with Parallel Boost
Converter Based MPPT,
T.Ajith Bosco Raj, Dr.R.Ramesh, JR.Maglin, M.Vaigundamoorthi, **I.William Christopher**, C.Gopinath
& C.Yaashuwanth,
International Journal of Photo Energy, vol.2014, article ID 385720, pp. 1-12, Hindawi Publishing Corporation,
USA, (ISSN: 1110-662X).(**Indexed in Web of Science & Scopus Indexed**).
- 17 Simulation Model of Single-Phase Simplified Eleven-Level Inverter,
I.William Christopher & Dr.R.Ramesh,
International Journal of Computer Applications (IJCA), vol.81, no. 7, 2013, pp. 18-21, Foundation of Computer
Science, USA, (ISSN 0975-8887).
- 18 Comparative Study of P&O and InC MPPT Algorithms,
I.William Christopher, & Dr.R.Ramesh,
American Journal of Engineering Research (AJER), vol.2, no.12, 2013, pp. 402-408, Natural State Research,
Inc. USA, (ISSN: 2320-0936).

- 19 Implementation of PIC16F877A Controlled Low Cost Single-Phase Five-level Inverter with Five Switches,
I.William Christopher & Dr.R.Ramesh,
International Review of Modelling and Simulations (IREMOS), vol.5, no. 1, 2012, pp. 114-120, Praise Worthy Prize, Italy, (ISSN: 1974-9821). **(Scopus Indexed)**.
- 20 A Novel Low Cost Automatic Solar Tracking System',
C.Saravanan, Dr.M.A.Panneerselvam, **I.William Christopher**,
International Journal of Computer Applications (IJCA), vol.31, no. 9, 2011, pp. 62-67, Foundation of Computer Science, USA, (ISSN 0975-8887).

IEEE Conferences Publications:

(Available in IEEE Xplore Digital Library & Scopus Indexed)

- 1 Fuel Cell Based SL Quasi Z-Source Inverter for Motor Drive,
Y.Rekha, **Dr.I.William Christopher** & Dr.V.Jamuna,
IEEE Fifth International Conference on Electrical Energy Systems (ICEES 2019), 21- 22 February 2019, pp. 1-6, SSN College of Engineering, Chennai, India. (ISBN: 978-1-5386-9249-3).
- 2 RHES-Economic Analysis and Power Management for a Technical Institution using HOMER, V.Birunda Mary, **Dr.I.William Christopher**, Dr.G.Themozhi,
IEEE Fifth International Conference on Electrical Energy Systems (ICEES 2019), 21- 22 February 2019, pp.1-6, SSN College of Engineering, Chennai, India. (ISBN: 978-1-5386-9249-3).
- 3 Quasi-ZSI Topology for Renewable Energy System: A Review,
Y.Rekha, **Dr.I.William Christopher** & Dr.V.Jamuna,
IEEE International Conference on Power and Embedded Drive Control (ICPEDC-2017), 16-17 March, 2017, pp.387-391, SSN College of Engineering, Chennai, (ISBN: 978-1-5090-4679-9).
- 4 Modelling and Simulation of Single Phase Simplified Eleven-Level Inverter,
I.William Christopher, Dr.R.Ramesh & M.Vishnupriya,
IEEE International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), 17-18 April 2013, pp. 47-50, AP Engineering College, Chennai (ISBN:978-1-4673-6408-9).
- 5 Microcontroller Based Single-Phase Simplified Seven-Level Inverter for PV System,
I.William Christopher, Dr.R.Ramesh, J.Parthiban, B.Saravanan, Rakesh Kumar & S.Pallavan,
IEEE Fifth India International Conference on Power Electronics (IICPE), 6-8 December 2012, pp. 1-6, Delhi Technological University, New Delhi, (ISBN: 978-1-4673-0931-8).
- 6 Microcontroller Based Single-Phase Simplified Nine-Level Inverter Fed Induction Motor,
I.William Christopher, Dr.R.Ramesh, A.Deepa, K.Hemalatha, S.Madhubala & J.Hemalatha,
IEEE Fifth India International Conference on Power Electronics (IICPE), 6-8 December 2012, pp. 1-6, Delhi Technological University, New Delhi, (ISBN: 978-1-4673-0931-8).
- 7 Low Cost Automatic Solar Energy Trapping System,
I.William Christopher, Dr.R.Ramesh & C.Saravanan,
IEEE 1st International Conference on Electrical Energy Systems (ICEES), 3-5 January 2011, pp.227-232, SSN College of Engineering, Chennai, (ISBN: 978-1-4244-9732-4).

International Conferences:

- 1 Simulation and Analysis of T-PUC9 Inverter Fed Single Phase Induction Motor Application, **I.William Christopher**, Delsa Davis, P Infanto Robbin, S Jovita Dixit and A Asif Iqbal, *First International Conference on Advances in Physical Sciences and Materials (ICAPSM 2020)*, 13-14 August 2020, SNS College of Technology, Coimbatore.
- 2 PV based Three Switch Isolated DC-DC Boost Converter, **Dr.I.William Christopher**, J.Jones Priya, Axin X Raghul, P.Vignesh Kumar, S.Vimal Raj, *4th International Conference on Energy Efficient Technologies for Sustainability (ICEETS'18)*, 5-7 April 2018, St.Xavier's Catholic College of Engineering, Nagercoil. (Available in SSRN eLibrary of **ELSEVIER**: <https://ssrn.com/abstract=3161877>).
- 3 Simulation Study of Three Switch Isolated DC-DC Boost Converter **Dr.I.William Christopher**, J.Jones Priya, Axin X Raghul, P.Vignesh Kumar, S.Vimal Raj., *International Conference on Recent Trends in Science, Engineering & Management (ICRTSEM - 2018)*, pp.118, 23-24 February 2018, Karpaga Vinayaga College of Engineering & Technology, (KVCET), Kanchipuram.
- 4 Comparative Study of MC-PWM Techniques for 13-Level Cascaded H-Bridge Multilevel Inverter, **Dr.I.William Christopher**, *2nd International Conference on Electrical, Communication and Computing (ICECC-2017)*, 7-8 March, 2017, Tagore Engineering College, Chennai.
- 5 Simulation and Analysis of VVG Power Converter for Switched Reluctance Motor N.Suresh Lingam & **Dr.I.William Christopher**, *2nd International Conference on Electrical, Communication and Computing (ICECC-2017)*, 7-8 March, 2017, Tagore Engineering College, Chennai.
- 6 FC Based Switched Inductor Quasi Z –Source Inverter Y.Rekha, **Dr.I.William Christopher** & Dr.V.Jamuna, *2nd International Conference on Electrical, Communication and Computing (ICECC-2017)*, 7-8 March, 2017, Tagore Engineering College, Chennai.
- 7 Viability Analysis of Renewable Hybrid Energy System Using HOMER for a Technical Institution in Tamil Nadu V.Birunda Mary, Dr.G.Themozhi & **Dr.I.William Christopher**, *2nd International Conference on Electrical, Communication and Computing (ICECC-2017)*, 7-8 March, 2017, Tagore Engineering College, Chennai.
- 8 3-Switch Single-Phase Inverter for PV System V.Birunda Mary, **Dr.I.William Christopher** & Dr.G.Themozhi, *1st International Conference on Power Engineering, Computing and Control (PECCON-2017)*, pp.46, 2-4 March, 2017, VIT University, Chennai

- 9 Fourier series Based Harmonic Reductions in Single-phase Modified H-Bridge 11-level Inverter using MATLAB
Dr.I.William Christopher, Dr.R.Ramesh, &Dr.M.A.Panneerselvam,
International Conference on Mathematical Computer Engineering (ICMCE-2016), during 16-17December, 2016. (ISBN: 978-93-81899-72-4). VIT University, Chennai.
- 10 Design of 3-Switch Single-Phase Inverter fed Induction Motor Using MATLAB Simulink,
Dr.I.William Christopher, J.Indhumathi, A.Gomathi, R.Meronica &D.EzhilRizana,
International Conclave on Renewable Energy Systems & Technology (ICREST-2016), 6-8 April 2016, Saveetha School of Engineering, Chennai.
- 11 1-Phase Induction Motor Control Using Modified H-Bridge 11-level Inverter,
I.William Christopher I & Dr.R.Ramesh,
International Conference on Emerging Trends in Science, Engineering and Technology (ICETSET), 18-19 April 2014, Jerusalem College of Engineering, Chennai.
- 12 Modelling and Simulation of Single Phase Fifteen-level Inverter with Reversing Voltage,
I.William Christopher &Dr.R.Ramesh, P.Sathiyabama, R.Pavithra, G.Ramyaselvi, &P.Saravanan,
International Conference on Electrical, Communication and Computing (ICECC), 13-14 March 2014, Tagore Engineering College, Hotel Radha Regent, Chennai.
- 13 Z-Source Inverter for AC Drives,
I.William Christopher & S.Murugan,
IEEE sponsored International Conference on "Recent Advancements and Applications of Computer in Electrical Engineering" (RACE), 24-25 March 2007, Engineering College Bikaner, Rajasthan.

National Conferences:

- 1 Small Wind Energy Conversion System with PMSG using MATLAB Simulink,
Dr.I.William Christopher, M.R.Sathesh,
National Conference on Recent Advances in Science, Engineering and Management (NCRASEM-2015), 20 March 2015, Tagore Engineering College, Chennai.
- 2 Comparative Study of DC to DC Converters for PV System using MATLAB,
Dr.I.William Christopher, N.R.Prasanth, S.ShyamSundar, A.Veerassamy, &R.Parthiban,
National Conference on Recent Advances in Science, Engineering and Management (NCRASEM-2015), 20 March 2015, Tagore Engineering College, Chennai.
- 3 A User Authentication Protocol Resistant to Security Breach Using Graphical Passwords,
S.Roselene Rebecca & **Dr.I.William Christopher**,
National Conference on Recent Advances in Science, Engineering and Management (NCRASEM-2015), 20 March 2015, Tagore Engineering College, Chennai.
- 4 Design of Horizontal Axis Wind Turbine (HAWT) Blade for Indian Low Wind Speed Regimes,
P.K.Praveen Kumar, Dr.K.Vasudeva Karanth & **Dr.I.William Christopher**,
National Conference on Recent Advances in Science, Engineering and Management (NCRASEM-2015), 20 March 2015, Tagore Engineering College, Chennai.

- 5 Numerical Simulation & Development of Aerodynamic Model for Darrieus Rotor Vertical Axis Wind Turbine,
E.Avinash, Dr.K.Vasudeva Karanth & **Dr.I.William Christopher**,
National Conference on Recent Advances in Science, Engineering and Management (NCRASEM-2015), 20 March 2015, Tagore Engineering College, Chennai.
- 6 Modelling of PV Module,
I.William Christopher, Dr.R.Ramesh, N.Kalidhasan, E.Boopathy, D.Murugan & M.Aravindhan,
National conference on Green Energy (NCGE), 20 April 2013, RMD Engineering College, Chennai.
- 7 Investigation of Power Quality Issues in Solar Power System,
J.R.Maglin, Dr.R.Ramesh, **I.William Christopher** & M.Vaigundamoorthi,
National conference on Recent Trends in Power Engineering (NCRTPPE), 29-30 April 2011, Tagore Engineering College, Chennai.
- 8 FPAA Implementation of Robust Sensor System,
G.Thenmozhi & **I.William Christopher**,
National Conference on Recent Trends in Bio-Medical and Communication Technologies (RTBMCT), 28-29 December 2006, Dhanalakhmi College of Engineering, Chennai.
- 9 Cascaded H-bridge Inverter for AC Drives,
I.William Christopher, K.Jai Ganesh & K.Nandha Kumar,
National Conference on Recent Trends in Electrical, Electronics & Computer Engineering (JCECON), 7-8 April 2006, Jerusalem College of Engineering, Hotel Accord Metropolitan, Chennai.
- 10 Harmonic Elimination using Multilevel Inverter,
I.William Christopher & Dr.S.Ramareddy,
National Conference on Emerging Trends in Electrical Engineering and Power Drives (NCEPED), 20 April 2005, Government College of Engineering, Tirunelveli.