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Publications:

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A: National and International Journals:

Sl.No	Description
1.	Chandra Sekaran E. and Anbalagan P. (2006), “Comparison of PI and Fuzzy Control for Harmonic Reduction in Power Electronic Converters”, i-managers Journal on Engineering and Technology (ISSN-0973-2632), Vol. 2, No. 1, August’06-October’06, pp. 36-41.(Impact Factor :0.702)
2.	Chandra Sekaran E. and Anbalagan P. (2007), “Comparison of Space Vector Pulse Width Modulation for Two Level and Three Level Inverters”, NICE Journal of Emerging Technology, Vol. 2, No. 1, pp.1-7.
3.	Chandra Sekaran E., Anbalagan P. and Palanisamy C. (2007), “Analysis and Simulation of a New Shunt Active Power Filter Using Cascaded Multilevel Inverter”, Journal of Electrical Engineering, Slovakia, SLOVAK CENTRE OF IEE, Vol.58, No.5, pp.241-249. (Impact Factor :0.483)
4.	Chandra Sekaran E. and Anbalagan P. (2008), “Comparison of Neural Network and Fast Fourier Transform Based Selective Harmonic Extraction and Total Harmonic Reduction for Power Electronic Converters”, Asian Power Electronics Journal, Hongkong, Vol. 2, No.1,pp. 1-8.
5.	Chandra Sekaran E., Anbalagan P. and Elango S., “Comparative Analysis of Three Level Diode Clamped Inverter with Two Level Voltage Source Inverter”, i-managers Journal on Electrical Engineering (ISSN-0973-8835), Vol. 2, Issue 3, January’09-March’09, pp. 26-36. (Impact Factor :0.786)
6.	E.Chandrasekaran, C.Shanmugam and V.Deepika “Improvement in Industrial safety by using Infrared Thermography Flaw Detection Algorithm (ITFDA)”, International Journal of of Microsystems Technology and its Applications (IJMTA) Vol-1, Issue-1, pp.20-25, 2012.
7.	E.Chandira Sekaran, “Energy Conservation in Electrical Systems” Productivity Journal, July 2013,pp.23-31.
8.	S.R. Sivarasu, E. Chandira Sekaran, S. Vasantharathna, “Development Of Smart Metering Infrastructure For Residential Distributed Generation/Micro Grid In Indian Power System”, <i>International Journal of Applied Engineering Research (IJAER)</i>, ISSN-0973-4562 ,Vol.9.Number(24)-2014,pp.27915-27940. (Impact Factor :4.336)

9.	S. Selvendran, S. Vasantharathna, E. Chandira Sekaran , “ An Improved Algorithm for Collision Avoidance System among Vehicles ” Journal of Computing Technologies (2278 – 3814), Volume 4 Issue 2-February 2015, pp.117-123.
10.	A.K.Unnikrishnan, A K, E.Chandira Sekaran and T.G.Subhash Joshi, ‘ Simulation of Hybrid Active Power Filter with Selective Harmonic Suppression ’, International Journal of Applied Engineering Research, ©Research India Publications (IJAER), ISSN 0973-4562 vol. 10, no. 7, pp. 16245-16260. (Impact Factor :4.336)
11.	A.K.Unnikrishnan, E.Chandira Sekaran et.al, ‘ Shunt hybrid active power filter for harmonic mitigation: A practical design approach ’, (SADH-D-14-0037724) Sa ^{dhana} Journal, ©Indian Academy of Sciences. Vol. 40, Part 4, June 2015, pp. 1257–1272. (Impact Factor :0.349)
12.	S.R. Sivarasu, E. Chandira Sekaran ,P. Karthik, “ Development of renewable energy based microgrid project implementations for residential consumers in India: Scope,challenges and possibilities ” Journal of Renewable and Sustainable Energy Reviews, Vol. 50 (2015), pp.256–269, http://dx.doi.org/10.1016/j.rser.2015.04.118 , 364-0321/& 2015 Elsevier Ltd. (Impact Factor :5.901)
13.	C.Shanmugam, E.Chandira Sekaran , “ Application of Infrared Thermography in Engineering Industries-A Review ” Journal of Advanced Research in Dynamical and Control Systems(JARDCS), Special Issue on Environment, Engineering and Energy, Vol.9,SP-14,2017,pp.1059-76.
14.	R.Mohan Das, E.Chandira Sekaran “ A Cloud System Model Employing Random Space Vector Pulse width Modulation for Noise Reduction in VSI fed Induction Motor ” Cluster Computing, Springer, ISSN: 1386-7857 (Print) 1573-7543 (Online), Published Online : 23.02.2018. February 2018.
15.	C. Shanmugam, E. Chandira Sekaran “ Optimal region growing and multi-kernel SVM for fault detection in electrical equipments using infrared thermography images ” International Journal of Business Intelligence and Data Mining, INDERSCIENCE,ISSN: 1743-8187 (Print),1743-8195 (Online), DOI: 10.1504/IJBIDM.2019.10013039 February 2018- ANNEXURE-1
16.	R.Mohan Das, E.Chandira Sekaran “An Improved Random Space Vector Pulse Width Modulation for Zero Voltage Switching Three Phase Inverter” TAGA Journal of Graphical Technology, Volume 14,ISSN:1748-0345 (online).March 2018.
17.	R.Mohan Das, E.Chandira Sekaran “ Noise Reduction In Three Phase Voltage Source Inverter Fed IM Using Random SVPWM Technique ” Journal of Electrical Engineering Vol No 18 Issue:4 Nov 2018 ISSN:1582-4594
18.	C. Shanmugam, E. Chandira Sekaran , ‘ IRT Image Segmentation and Enhancement using FCM-MALO Approach ’, Infrared Physics & Technology, ELSEVIER SCIENCE BV, ISSN: 1350-4495 (Print), 1879-0275 (Online), DOI: https://doi.org/10.1016/j.infrared.2018.12.032 , Volume 97, March 2019, Pages 187-196. Impact Factor: 1.851 [ANNEXURE-1]
19.	Chellamuthu, S. & Sekaran, E.C. ‘Fault detection in electrical equipment’s images by using optimal features with deep learning classifier’, Multimedia Tools and Applications, Springer, ISSN 1380-7501 (Print), 1573-7721 (Online), vol 78, pp. 27333-27350. October 2019 (Annexure - 1, Impact Factor: 2.101)

B: International / National Conferences:

Sl.No.	Description
1.	E.Chandra Sekaran, Dr.V.Jagannathan, “Electrical Power Generation Systems in Mini Hydel Plants” in National seminar on small hydro power projects held at CIT during Dec3 rd -4 th , 1993.
2.	E.Chandra Sekaran, V.Manikandan, “Pollutants from Thermal Power Stations and their Control” in 28 th annual convention of ISTE and national seminar on Environment and development held at Punjab agricultural university during Nov21 st -23 rd , 1998.
3.	E.Chandrasekaran, Dr. P.Anbalagan, J.Devishree, A.Ashok, “A Photovoltaic Uninterruptible Power Supply System Synchronised to the Grid” , International Conference on Responsive Supply Chain and Organizational Competitiveness (RSC-2004) – A Technology Watch, Coimbatore Institute of Technology, Coimbatore-14, Jan 5-7, 2004.
4.	E.Chandrasekaran, J.Devishree, Dr.P.Anbalagan, “Design of New Neuro Fuzzy Based Maximum Power Point Tracker for Photovoltaic Applications” , 13 th National Power Systems Conference (NPSC 2004) , IIT, Chennai, 27-30, Dec. 2004
5.	E.Chandrasekaran, Dr.P.Anbalagan, C. Palanisamy, “Multilevel Converter Approach for Power Line Conditioning of Power Systems” in Second National Conference on Modern Trends in Electrical and Instrumentation Systems, organized by Department of Electrical Electronics and Instrumentation Engineering , Government College of Technology, Coimbatore-13, Tamilnadu, India during March 9-10, 2005.
6.	E.Chandrasekaran, C. Palanisamy, “High-Power Induction Motor Drives Using a cascade Multilevel Voltage Source Inverter” presented in Cavalier Dr.G.K.Devarajulu Technological Excellence Competition during National Technology Day Celebrations organized by Lakshmi Machine Works Ltd.,Coimbatore on 24 th May 2005.
7.	E.Chandrasekaran, Dr.P.Anbalagan, C. Palanisamy, “High- Power Induction Motor Drives Using a Transformerless Multilevel Voltage Source Inverter” in the National Level Conference on Power Electronics and Drives, organized by Department of Electrical and Electronics Engineering , AC College of Engineering and Technology, Karaikudi-630004, Tamilnadu, India on 31 st March 2005.
8.	E.Chandrasekaran, Dr.P.Anbalagan, C. Palanisamy, “Over Voltage Protection during Loss of Voltage Source Converter in Multiterminal - HVDC Systems” in second National conference on Intelligent and Efficient Systems (NCIEES) organized by Department of Electrical and Electronics Engineering , PSG College of Technology, Coimbatore-04, Tamilnadu, India, during June 24-25, 2005.
9.	E.Chandrasekaran, Dr.P.Anbalagan, C. Palanisamy, “Comparison of methods for Power Electronic Converter Harmonic Analysis” proceedings of International Conference on Resource Utilization and Intelligent Systems (INCRUIS-2006), organized by Kongu Engineering College, Perundurai, Erode – 638 052, Tamil Nadu, India, during 04-06 January 2006.
10.	E.Chandrasekaran, Dr.P.Anbalagan, J.J.Arun, “A New method for Harmonic analysis by Neural Network and Wavelet Transform” in National Conference on Intelligent Integrated Control and Automation(A Solution Methodology with Efficient Soft Computing) IICA-2006, organized by Department of Electrical and Electronics Engineering , Coimbatore Institute of Technology, Coimbatore-14, Tamilnadu, India, during February 10-11, 2006.

11.	E.Chandrasekaran , Dr.P.Anbalagan, L.Lakshmikantha Reddy, “ Current Controlled Space Vector Pulse Width Modulated Inverter ” in National Conference on Intelligent Integrated Control and Automation(A Solution Methodology with Efficient Soft Computing) IICA-2006, organized by Department of Electrical and Electronics Engineering , Coimbatore Institute of Technology, Coimbatore-14, Tamilnadu, India, during February 10-11, 2006.
12.	E.Chandrasekaran , Dr.P.Anbalagan, M.Deenadaylan, V.Ganesh Moorthy, R.K.R.Sreesudhan, “ Soft Computing Techniques for Harmonic Reduction in Single Phase Utility Loads ” in National Conference on Intelligent Integrated Control and Automation(A Solution Methodology with Efficient Soft Computing) IICA-2006, organized by Department of Electrical and Electronics Engineering , Coimbatore Institute of Technology, Coimbatore-14, Tamilnadu, India, during February 10-11, 2006.
13.	E.Chandrasekaran , S.Elango, J.J.Arun, “ Simulation of Fuel Cell Based Multiple Inverters ” in National Conference on Intelligent Integrated Control and Automation(A Solution Methodology with Efficient Soft Computing) IICA-2006, organized by Department of Electrical and Electronics Engineering , Coimbatore Institute of Technology, Coimbatore-14, Tamilnadu, India, during February 10-11, 2006.
14.	E.Chandrasekaran , Y.Robinson, Dr.S.Dhandapani, V.Manikandan, “ Embeeded Controlled for the Injection of Fuel in Internal Combustion Engines ” in National Conference on Intelligent Integrated Control and Automation(A Solution Methodology with Efficient Soft Computing) IICA-2006, organized by Department of Electrical and Electronics Engineering , Coimbatore Institute of Technology, Coimbatore-14, Tamilnadu, India, during February 10-11, 2006.
15.	E.Chandrasekaran , P.Anbalagan, Arun, “ A New Fuzzy Based Shunt Active Power Line Conditioner ”, Second National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives, PCID – 2006, Bannari Amman Institute of Technology, Sathyamangalam, 24-25, March 2006. <i>(Awarded as Best Paper)</i>
16.	E.Chandra Sekaran ,P.Anbalagan,S.Elango, “ A Closed Loop Control for Parallel Hybrid Filter to reduce harmonics in Power Electronic Converters ” 30 th National Systems Conference (NSC-2006) during November 2-4 2006 at National Institute of Oceanography, Goa.
17.	E.Chandra Sekaran , P.Anbalagan, S.Elango,“ Harmonic Reduction, Power Factor Correction and Balancing of Non-Linear Loads using Active Power Filters ” in the International Conference on Soft Computing Techniques in Engineering (SOFTECH'07) organized by Department of Computer Science and Engineering, Faculty of Engineering, Avinashilingam University for Woman, Coimbatore – 641 108, during, Jan 24-25, 2007.
18.	E.Chandra Sekaran , P.Anbalagan, S.Elango, “ A New Multilevel Based Active Power Filter to Eliminate Harmonics from Non-Linear Loads ” in the Third National Conference on <i>Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID-2007)</i> organized by Department of Electrical and Electronics Engineering, Bannari Amman Institute of Technology, Sathyamangalam,Erode District, Tamilnadu, during February,16-17, 2007. <i>(Awarded as Best Paper)</i>
19.	E.Chandra Sekaran , P.Anbalagan, L.Lakshmi Kantha Reddy, “ Space Vector Pulse Width Modulation for Cascaded Multilevel Inverters ” in the Third National Conference on <i>Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID-2007)</i> organized by Department of Electrical and Electronics Engineering, Bannari

	Amman Institute of Technology, Sathyamangalam, Erode District, Tamilnadu, during February, 16-17, 2007.
20.	E.Chandra Sekaran , P.Anbalagan, P.Devaki, V.Maheswaran, “ A Rule Based Expert Systems for Identification of Harmonics Originating from Single Phase Non Linear Loads ” in the Third National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID-2007) organized by Department of Electrical and Electronics Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode District, Tamilnadu, during February, 16-17, 2007.
21.	E.Chandra Sekaran , P.Anbalagan, G.Senthil, “ Harmonic Analysis and Reduction in Power Electronic Converters using Comb Filter and Window Technique ” in the Third National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID-2007), organized by Department of Electrical and Electronics Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode District, Tamilnadu, during February, 16-17, 2007.
22.	E.Chandra Sekaran , P.Anbalagan, S.Elango, “ A Comparative Study of Shunt Active Power Filter using PWM Inverter and Cascaded Multilevel Inverter ” in the third National conference on Emerging Technologies in Electrical Systems (ETES-2007) Noorul Islam College of Engineering, Kumaracoil, Thuckalay, on 10 th March 2007.
23.	E.Chandra Sekaran , P.Anbalagan, L.Lakshmi Kantha Reddy, “ Comparision of Space Vector Pulse Width Modulation for Two Level and Three Level Inverters ” in the third National conference on Emerging Technologies in Electrical Systems (ETES-2007), Noorul Islam College of Engineering, Kumaracoil, Thuckalay, on 10 th March 2007.
24.	E.Chandra Sekaran , P.Anbalagan, S.Elango, “ A Method To Reduce Neutral Current in Three Phase Four Wire Electric Distribution Systems By Using Active Power Filter ” in the National conference on Innovative Strategies on Power Systems and Power Electronic Drives (ISPSPED’07), organized by Department of Electrical and Electronics Engineering, Sona College of Technology, Salem-636005 on 16 th March 2007.
25.	E.Chandra Sekaran , P.Anbalagan, L.Lakshmi Kantha Reddy, “ Comparision of Sinusoidal and Space Vector Pulse Width Modulation Techniques for Three Level Inverters ” in the National conference on “Innovative Strategies on Power Systems and Power Electronic Drives (ISPSPED’07)” organized by Department of Electrical and Electronics Engineering, Sona College of Technology, Salem-636005 on 16 th March 2007.
26.	E.Chandra Sekaran , P.Anbalagan, S.Elango, “ Comparative study of Diode Clamped Multilevel Inverter with Conventional Pulse width Modulation Inverter ” in the International Conference on Modeling and Simulation Engineering Methods towards Frontier Technologies). CITICOMS 2007, during 27-29, August, 2007, Coimbatore Institute of Technology. Coimbatore 641014, Tamilnadu, India.
27.	E.Chandra Sekaran , S.Selvakumar “ Design of sliding mode voltage controlled buck converter ” National Conference on Power Electronics and Drives (PEDC’08) at AC college of Engineering and Technology, Karaikudi, on 13 th March 2008, pp. 28–33.
28.	E.Chandra Sekaran , S.Sathyaraj, “ A Network-Enabled Microcontroller Based Distributed System for Monitoring and Controlling Home/Industrial Appliances ” in National level Conference on Electronics and Communication Engineering (e-SWIFT & e-BLOG ‘2008) at Government College of Engineering, Salem-11, held on 25th March 2008.
29.	E.Chandra Sekaran , S.Selvakumar, “ Design of PWM Based Sliding Mode Voltage Controlled Buck and Boost Converters ” in the International Conference on “

	SENSORS, SECURITY, SOFTWARE and INTELLIGENT SYSTEMS (ISSIS 2009), during 8-10 January 2009, Coimbatore Institute of Technology. Coimbatore 641014, Tamilnadu, India.
30.	E.Chandra Sekaran, S.J.Sugumar,S.V.Vijaya Karthik, “A New Wireless Based Automated Passenger Friendly Bus Stoppage Information System” in the International Conference on Embedded Systems(ICES-2010), during July 14-16, 2010, Coimbatore Institute of Technology. Coimbatore 641014, Tamilnadu, INDIA.
31.	E. Chandra Sekaran and S. Elango, “Mitigation of Voltage Sag by Using Distribution Static Compensator” International conference on Process Automation Control and Computing organized by Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore, 20-22 July 2011
32.	Chandrasekaran, C.Shanmugam and V.Deepika “Improvement in Industrial safety by using Infrared Thermography Flaw Detection Algorithm (ITFDA)” , International Conference on Computer, Communication and Signal Processing (ICCCSP2011), 21-23 Sep 2011,SSM College of Engineering, Namakkal Dist, INDIA. pp.115-116.
33.	E.Chandra Sekaran, S.Vasantharathna, S. Kamalasundari, and S.Sumeekha, “Development of an Intelligent System to Produce Bio gas from Fruit and Vegetable Wastes” International Conference on Renewable Energy Utilization (ICREU-2012), Coimbatore Institute of Technology, Coimbatore, INDIA, 04-06, Jan. 2012
34.	E.Chandra Sekaran and S.Sudarsan, “Design and Development of EMG Controlled Prosthetics Limb” International Conference of Modeling Optimization and Computing, (ICMOC 2012) held at Noorul Islam University, Kumaracoil, INDIA, 10-11 April 2012.
35.	E.Chandira Sekaran and S.R.Sivarasu, “Research Investigations and Development of Hybrid Institutional Micro Grids with Optimal Source – Load Modeling” 45 th Annual Frontiers of Power Conference October 29-30, 2012, Oklahoma State University, Stillwater, OK 74078-5034, USA.
36.	E.Chandira Sekaran, S.R.Sivarasu and S.Vasantharathna, “Research Investigations and Development of Smart Metering Infrastructure for Residential Micro Grid” 46 th Annual Frontiers of Power Conference October 28-29, 2013, Oklahoma State University, Stillwater, OK 0785034, USA.
37.	K.Lakshmi, S.Vasantharathna and E.Chandira Sekaran, "Profit Based Unit Commitment Problem in Deregulated Environment Using Artificial Immune System Algorithm” 46 th Annual Frontiers of Power Conference October 28-29, 2013, Oklahoma State University, Stillwater, OK 0785034, USA.
38.	Dr.E. Chandira Sekaran, S.R. Sivarasu, C.M. Priyanka, R. Vaishnavi, “Optimization of Hybrid Solar PV / Wind Energy system for Residential Micro Grid” International Conference on Renewable Energy Utilization (ICREU-2014), Conference proceeding PP. 882 - 886, organized by Department of EEE, Coimbatore Institute of Technology, Coimbatore on 08-10 January 2014.
39.	Dr.E. Chandira Sekaran, S.R. Sivarasu, V.R. Santhosh, A.N. Vignesh, N. Subashananth, A. Suriya Dharsan, Eken Bam, “Development of Power Converters for Institutional Micro Grid” International Conference on Renewable Energy Utilization (ICREU-2014), Conference proceeding PP. 887 - 891, organized by Department of EEE, Coimbatore Institute of Technology, Coimbatore on 08-10 January 2014.

40.	E.Chandira Sekaran,R.Prabhakar, V.Selladurai et al, “Design and Development of Grid Complimentary Transformerless Standalone PV Systems for Administrative and Commercial Buildings” 47 th Annual Frontiers of Power Conference October 27-28, 2014, Oklahoma State University, Stillwater, OK 0785034, USA.
41.	S.R.Sivarasu, E.Chandira Sekaran, S.Vasantharathna, “Development of Renewable Energy Based Common DC Micro Grid with Possible Energy Sharing for Residential Applications” 47 th Annual Frontiers of Power Conference October 27-28, 2014, Oklahoma State University, Stillwater, OK 0785034, USA.
42.	E.Chandira Sekaran, S.R.Sivarasu, S.Vasantharathna, “Geographical Data Based Optimization of Hybrid Solar PV-Wind Resources Connected in an Institutional Micro Grid System Using Multi-Objective Fitness Function” 48 th Annual Frontiers of Power Conference October 25-26, 2015, Oklahoma State University, Stillwater, OK 0785034, USA.
43.	P. Arun Vignesh, E.Chandira Sekaran, S.R. Sivarasu, ‘Design and Development of Residential Solar PV System using Cascaded Multilevel Inverter through Interleaved Boost Converter’, International Conference on Renewable Energy Utilization (ICREU-2016), Department of EEE, Coimbatore Institute of Technology, Coimbatore, 08-10 January 2016,pp.249-254.(ISBN No. 978-81-930396-2-5).
44.	E.Chandira Sekaran, S.Vasantharathna, R.Vaishnavi, "Design and Development of Solar PV Based DC Nano Grid for Residential Applications" 50 th Annual Frontiers of Power Conference October 30-31, 2017, Oklahoma State University, Stillwater, OK 0785034, USA.
45.	T.Kalaivani Kosala, E.Chandira Sekaran, S.Vasantharathna, “IoT BASED SMART LIGHTING SYSTEM FOR SMART CITIES” Proceedings of the International Conference on Renewable Energy Utilization (ICREU-2018), Organized by Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore – 641014, Tamilnadu, INDIA, jointly with Oklahoma State University, USA during January 8-10, 2018, pp.61-64.
46.	K.Durga, E.Chandira Sekaran, S.Nandakumar, “Design And Development Of Universal PWM Controller” Proceedings of the International Conference on Renewable Energy Utilization (ICREU-2018), Organized by Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore – 641014, Tamilnadu, INDIA, jointly with Oklahoma State University, USA during January 8-10, 2018, pp.119-123.

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