


K.S.R. College of Engineering, Tiruchengode –637215
Department of Electrical and Electronics Engineering
Faculty Profile

1. Name	Dr. K.Lakshmi	
2. Designation	Professor & Director	
3. Date of Birth	04.05.1977	
4. Date of Joining	17.08.2022	
5. Specialization	Power Systems	
6. Academic Qualification	M.E., Ph.D.,	
7. Domain Mail ID & Contact Number(s)	lakshmik@ksrce.ac.in & 9894446067	
8. Experience Details(Chronological)	Teaching: 24.5 Years	

Experience & Promotion Details:

S.No	Name of the Organization	Designation	Period	
			From	To
1.	K.S.R College of Engineering, Tiruchengode.	Professor & Director	17.08.2022	Till date
2.	Sri Krishna College of Technology, Coimbatore	Professor and Head	03.08.2020	16.06.2022
3.	Sri Krishna College of Engineering And Technology, Coimbatore	Professor and Head	28.06.2017	31.03.2020
4.	PSG Institute of Technology and Applied Research, Coimbatore.	Associate Professor	01.06.2016	31.05.2017
5.	K.S. Rangasamy College of Technology, Tiruchengode.	Professor, Associate Professor Assistant Professor & Lecturer	24.05.1999	30.04.2016

09. Publication Details:

S.No	*National Level		*International Level		Google Scholar Citations: 358
	Journal(s)	Conference(s)	Journal(s)	Conference(s)	
1	--	09	48	35	h-index :10

Google scholar id	Orcid id	Scopus id	Researcher id
https://scholar.google.com/citations?user=Tz7rD-QAAAAJ&hl=en	https://orcid.org/0000-0001-9543-9478	57205606593	rid30186

**10. Funded Programmes Organized
(Seminar/Conference/Workshop/FDP/STTP/Other:**

S.No	Title of the Proposal	Funding Agency Details	Date & Duration		Amount Sanctioned
			From	To	
1.	Thin film Quantum solar cell design & fabrication for green energy systems	NITTTR Chandigarh sponsored STC at Sri Krishna College of Engineering and Technology, Coimbatore	25.11.2019	to 30.11.2019	-
2.	Lab view Technologies and its Applications	Sri Krishna College of Engineering and Technology in association with NI Technology, Bangalore.	18.11.2019	to 22.11.2019	-
	Recent Advances in Engineering and Technology ICRAET 2019	IEEE Sponsored International Conference, at Sri Krishna College of Engineering and Technology, Coimbatore.	08.02.2019	to 09.02.2019	-
13.	Energy Auditing and Conservation Techniques	Sri Krishna College of Engineering and Technology in association with Petroleum Conservation Research Association (PCRA), Coimbatore - Ministry of Petroleum & Natural gas, Govt. of India	26.09.2019		-

14.	Scilab Programming	NITTTR Chandigarh sponsored STC at Sri Krishna College of Engineering and Technology, Coimbatore	14.05.2018 to 18.05.2018	-
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11. Funded Research Projects:

S.No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
1.	MODROB scheme for Modernization of Power Electronics and Drives lab to facilitate research in Electric Vehicle and Energy harvesting from Alternate Sources through High efficiency Power Converters	AICTE	Rs. 9,10,196/-	PI
2.	Short Term Training Program(STTP) on "Electric Vehicle: Evolution, Integration and Challenges	AICTE	Rs. 3,40,167/-	PI
3.	Travel Grant for attending IEEE international conference at Malaysia	TamilNadu State Council for Science and Technology (TNSCST)	Rs. 10,600	PI

12. Detail of Book/Book Chapter Published:

S.No	Title of the Book	Author(s)	Name & Address of the Publisher	Year of Publishing	ISBN no
1	Lifi Technology Based Transmitter and	Mr.T.Kesavan & Dr.K.Lakshmi	Xpress Publications, Notion Press	2019	978-164-7-60881-1

	Receiver for Multimedia Applications				
2	Control Engineering and its Applications	G.Radhakrishna, Dr.K.Lakshmi and S.Boobalan	LAP Lambert Academic Publishing	2019	978-613-9-96493-2
3	Harmonic Compensation in the Residential Distribution System	Mr.T.Kesavan, Dr.K.Lakshmi and Mr.R.Kavin	LAP Lambert Academic Publishing	2018	978-3-659-95601-0
4	Demand Side Energy Management System for SG Using Robust Optimization	Mr.N.Loganathan, Dr.K.Lakshmi and Dr.P.S.Mayurappriyan	LAP Lambert Academic Publishing	2018	978-613-9-89138 – 2
5	Implementation of Multilevel 6.Inverter with reduced number of Switches	Mr.R.Kavin, Dr.K.Lakshmi and Mr.T.Kesavan	LAP Lambert Academic Publishing	2018	978-613-9-83632-1
6	Total Quality Management	Dr.K.Duraiswamy, K.Lakshmi and E.Mariappane	Sakura Printers, India	2004	-

13. Patents Published / Filled :

S.No	Patent Journal/Application No	Title of Invention	Date of filing	Date of Published
1.	33/2023 / 202341038926-A	Intelligent Ecosmart meter: IoT-Enabled Energy Monitoring System	07.06.2023	18.08.2023

		for Sustainable Power Consumption		
2.	15/2021 / 202141012377	Implementation of IoT based secured riding system	23.03.2021	09.04.2021
3.	12/2021 / 202141049567	EV Smart Charging using Wireless Microwave Power Transmission	29.10.2021	03.12.2021
4.	31/2019 / 201941028647	Traffic Signal Controller using Dense of the Android Devices	16.07.2019	02.08.2019
5.	63/2019 / 201941045736	Smart Walking Stick	11.11.2019	29.11.2019
6.	201941007868	Development of Wireless based Current Controlled Stimulator for Paralyzed patients	28.02.2019	08.03.2019

14. Consultancy Activities (Industry):

S.No	Title of the Project	Name of the Company	Consultant Amount Received
1.	Control of solar water pump with battery charging	Confident Engineering India Pvt. Ltd, Coimbatore	15,000/-
2.	Hybrid Starter	Pentagon Switchgear Pvt. Ltd., Coimbatore	10,000/-

15. Professional Recognition/Award/Prize, Fellowship/Internship received etc:

S.No	Name of Award/Fellowship/Internship	Awarding Agency
1.	Overall College level Contributor Award	Sri Krishna College of Engineering and Technology, Coimbatore.
2.	Appreciation Award	Knowledge Services Pvt Ltd, (Authorized Training Partner for

		Texas Instruments University)
3.	Outstanding Women Achiever Award	Venus International Foundation, Chennai
4.	Certificate of Honor for achieving excellence in Anna University Examinations	PSG Institute of Technology and Applied Research, Coimbatore.
5.	Best Teacher Award	K.S.Rangasamy College of Technology, Tiruchengode.
6.	Best Paper Award from International Conference on Digital Factory	Coimbatore Institute of Technology, Coimbatore, BIRC & University of Massachusetts-Dartmouth, USA.

16. Membership in Professional Bodies:

- Indian Society for Technical Education (ISTE) - Life Member (LM 41977)
- IAENG - 208637
- IFERP – PM43122

17. Social media details:

LinkedIn Profile Link	https://www.linkedin.com/feed/
Instagram Profile Link	https://www.instagram.com/luxmi_durai_01?utm_source=qr&igsh=ZmRyYXR5MWZtbXJ3
Facebook Profile Link	https://www.facebook.com/share/1WuF57Kn45WwPuBi/?mibextid=qi2Omg
Youtube Profile Link	https://www.youtube.com/@klakshmi8209

18. Areas of Interest:

- Restructured Power Systems
- Renewable Energy Technologies
- Artificial Intelligent Techniques

List of Publications

International Journal: 48

1. Murugesan, M and **Lakshmi, K.**, “Design and Implementation of Modified Multilevel Inverter FED BLDC Motor for Electric Vehicle Application” (ISSN: 2367–5535), Comptes rendus de l’Acad’emie bulgare des Sciences, Engineering sciences, Vol. 76, No. 10, 2023. **(Scopus)**
2. Kesavan T and **Lakshmi, K**, “An Optimal Selection and Placement of Distributed Energy Resources Using Hybrid Genetic Local Binary Knowledge Optimization” Journal of Circuits, Systems and Computers (ISSN: 1793-6454) vol 32, no. 18: 2350307, 2023. **(SCI- Q3)**
3. Murugesan, M and **Lakshmi, K.**, “Analysis and Implementation of Switched Capacitor-based Multi-Level Inverter for Electric Vehicles Applications”, Elektronika ir Elektrotechnika (ISSN: 1392 - 1215), Vol.29, No.1, pp.21-32, 2023. **(SCI- Q3)**
4. Karthikeyan, S and **Lakshmi, K.**, “FPGA Based Integrated Control of Brushless DC Motor for Renewable Energy Storage System” International Journal of Cybernetics and Systems, (ISSN: 1087-6553), vol.54, no.5, pp.1-22, 2023. **(SCI- Q2)**
5. Dr.Lakshmi K, Ranjith kumar R, Amol M, Sathish kumar. A, Kiruba karan M, “ Automatic Path Memorizing Forklift” International Journal of Advances in Engineering and Management, Vol. 5, No.4, pp: 636-641, 2023. (UGC)
6. Kesavan T and **Lakshmi, K**, “Optimization of a Renewable Energy Source-Based Virtual Power Plant for Electrical Energy Management in an Unbalanced Distribution Network” Journal of Sustainability (ISSN: 2071-1050) vol 14, no. 18: 11129, 2022. **(SCI- Q2)**
7. Loganathan, N., Mayurapriyan, S and **Lakshmi, K.**, “Energy Management and Harmonic Mitigation of Hybrid Renewable Energy Microgrid Using Coordinated Control of Multi-Agent System”, International Journal of Industrial Engineering-Theory Applications and Practice, (ISSN: 1943-670X), vol. 29(6), pp. 893-913, 2022. **(SCI- Q3)**
8. Murugesan M and **Lakshmi K**, “Performance Analysis of Thirteen Level Modified Multilevel Inverter for Electric Vehicle Applications” Gradiva Review Journal (ISSN: 0363 - 8057), Vol. 8, No.12, pp. 164-171, 2022. **(Scopus, IF-6.3)-KSRCE**
9. Muniraj C and **Lakshmi K** and Guna priya D, “Integrated PCA and FIS approach to the selection of Current and Vibration Signal features for Induction Motor Mechanical Fault Classification” Journal of Intelligent & Fuzzy Systems (ISSN:1064-1246) pp.1-

19,2021.(SCI- Q2)

10. Kesavan T and **Lakshmi, K**, “Quick search optimization algorithm-based implementation of virtual power plant for distribution network”, in *Advances in Intelligent Systems and Computing in Springer Book series* (ISSN: 2194-5365), 1163, pp. 261-272, 2021. (**Scopus**)
11. Loganathan, N., **Lakshmi, K.**, and Mayurapriyan, S, “An Novel Evolutionary Energy- Preserve Rate Clustering Technique Based Wind Power Generation Forecasting”, *Interciencia Journal* (ISSN: 0378-1844), vol.45, no.11, pp.138-175, 2020.
12. B. Lalitha, **K. Lakshmi**, G. Ramya, R. Sampathkumar, T G M.Moinuddeen “ Harmonic Analysis of Reduced Device Count Multilevel Converter” *Advances in Mathematics: Scientific Journal* (ISSN: 1857-8365) , Vol.9, no.10, pp. 8175–8185, 2020.
13. Muniraj C and **Lakshmi K** Guna priya D, “Detection and classification of mechanical faults of three phase induction motor via pixels analysis of thermal image and adaptive neuro-fuzzy inference system” **Springer Journal** of Ambient Intelligence and Humanized Computing (ISSN: 1868-5137), Vol,11, no.10 pp. 1-12, 2020.
14. S Boobalan, **K Lakshmi**, KN Thirukkuralankani, “Comparative Study and Analysis of Human Knee Angle Measurement System” **Springer Book Series: Innovations in Electrical and Electronics Engineering**, vol.626, pp.769-775, March 2020.
15. Y Pavithra, **K Lakshmi**, “Performance Analysis of Grid Connected Modified Z-Source High Step up Inverter for Solar Photovoltaic System” **Springer Book Series: Intelligence in Big Data Technologies—Beyond the Hype**, vol. 1167, pp. 559-569, July 2020.
16. S. Karthikeyan, **K. Lakshmi**, and S. Gobhinath, “Design and Implementation of SEPIC Converter Based Nine-Level MLI Fed IM with PI, FLC, and ANN Controller” , *Recent Trends in Mechanical Engineering*, **Springer Nature Singapore Pte Ltd**, pp.621- 631,2020.
17. S.Karthikeyan, **K.Lakshmi**, S. Sivaranjani , V.Ravirajan, D.Louis Fernandas, “Rental Battery Management System for Electric Vehicles” *Journal of Test Engineering and Management*, vol.83, pp. 25541 – 25545, 2020.
18. Boobalan.S, **K.Lakshmi** and Gobhinath.S, “Mathematical Modelling and Simulation of Non-Linear PID Controller for Spherical Tank Level Control in oil and Gas Industry” *International Journal of Innovative Technology and Exploring Engineering* (ISSN: 2278- 3075), Vol.8, No.7, pp.1389-1394, 2019.

19. **Lakshmi, K.** and Kesavan T, “Design and Study of Interleaved Step up DC Converter with High Level Gain for the Application of Solar Photovoltaic Module” International Journal of Recent Technology and Engineering (ISSN: 2277-3878), Vol.7, No.6, pp.1426-1431, 2019.
20. M.Gayathiri and **K. Lakshmi**, “Battery Less Solar Photovoltaic Water Pumping System using Incremental Conductance Method” Indian Journal of Science and Technology (ISSN: 0974-5645), Vol.12, No.23, pp.1-6, 2019.
21. Loganathan, N., **Lakshmi, K.**, and Mayurapriyan, S, “ Demand side EMS using artificial neural network-based LP method”, IOP Conference Series: Materials Science and Engineering (ISSN: 1757-899X), vol.623, No. 012001,pp.1-8, 2019.
22. S.Karthikeyan and **K.Lakshmi**, “Performance Analysis of Multilevel Inverter with Reduced Number of Switches”, Journal of Computational and Theoretical Nanoscience (ISSN: 1546-1963), Vol. 16, pp.1–6, 2019.
23. **K. Lakshmi** and N.Loganathan,“Distribution Side Energy Management and Scheduling in Smart Cities”, International Journal of Pure and Applied Mathematics (ISSN 1314- 3395), Vol. 119, No. 12, pp. 923-935, 2018.
24. G.Radhakrishnan, A.Maideen Abdhulkader Jeylani, **K.Lakshmi**, K.Rameshkumar, “Steady state performance of a grid connected system using solar based multiline power flow controller”, International Journal of Pure and Applied Mathematics (ISSN 1314- 3395), Vol.119, No. 12, pp.1717-1727, 2018.
25. K.Rameshkumar, **K.Lakshmi**, R.Sakthiganesh, and R.Saran, “Design and Implementation of Data Transfer through Visible Light”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol.119, No. 12, pp.1807-1816, 2018.
26. Loganathan, N., **Lakshmi, K.**, “Smart energy management systems: a literature review”, MATEC Web of Conferences (ISSN: 2261-236X),vol.225, No.01016, pp.1-8, 2018.
27. T.Kesavan, **K. Lakshmi**, R.Kavin and S.SheebaRani Gnanamalar, , “Local Search Optimization Algorithm Based Monitoring and Controlling of Virtual Power Plant for Distribution Network”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol.119, No.12, pp.1851-1864, 2018.
28. S.Karthikeyan, **K.Lakshmi** and S.Boobalan, “Regenerative Braking System for Electric Vehicle based on ANN”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol.119, No.12, pp.1865-1875, 2018.

29. S.Boobalan, **K.Lakshmi** and S.Karthikeyan, “Automated Driver Assistance Systems for Agricultural Robots using Matduino”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol.119, No.12, pp.1877-1886, 2018.
30. R.Kavin, **K.Lakshmi**, T.Kesavan, and S.Sheebarani Gnanamalar, “Wireless Power Transfer from PV with Ripple Reduction and RF Based Charging Control”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol. 119, No.12, pp.1887- 1894, 2018.
31. K.Rameshkumar, V.Indragandhi, **K.Lakshmi** and G.Radhakrishanan. “Performance analysis of DC-link capacitor voltage control based single phase shunt active filter with direct and indirect current control technique”, International Journal of Pure and Applied Mathematics (ISSN 1314-3395), Vol.119, No.12, pp.1905-1914, 2018.
32. Loganathan, N., **Lakshmi, K.**, and Arun Venkatesh, J., “ A Robust Energy Management System for Smart Grid” International Journal of Advances in Intelligent Systems and Computing (ISSN: ISSN: 2194-5357), **Springer Series**, Vol. 467, pp.423-435, 2017.
33. Karthik, S. and **Lakshmi, K.**, “PMU Based Wide Area Backup Protection Scheme in Power Transmission Lines”, International Journal of Applied Engineering Research (ISSN 0973-4562), Vol. 10 No.20, pp.20037-42, 2015.
34. Oshiya, A. and **Lakshmi, K.**, “Hydro and Wind Power Coordination Using Interval Optimization to Attain Profit Intervals”, International Research Journal of Engineering and Technology (ISSN: 2395-0072), Vol. 2, No.9, pp.341-347, 2015.
35. Loganathan, N.and **Lakshmi, K.**, “Demand Side Energy Management for Linear Programming Method” TELKOMNIKA Indonesian Journal of Electrical Engineering (ISSN: 2302-4046), Vol 14, No 1, pp.72-79, 2015.
36. Karthik, S. and **Lakshmi, K.**, “PMU Based Wide Area Backup Protection Scheme in Power Transmission Lines”, International Research Journal of Engineering and Technology (ISSN: 2395-0072), Vol. 2, No.9, pp.273-281, 2015.
37. Kaleeswari, M.and **Lakshmi, K.**, “Optimal Energy Management Algorithm for Plug in Hybrid Electric Vehicles”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (ISSN: 2320– 3765), Vol. 4, No. 2, pp. 600-606, 2015.
38. Loganathan, N.and **Lakshmi, K.**, “ANN Based Linear Programming

Approach for Demand Side Energy Management” , International Journal of Innovative Research in Advanced Engineering (**ISSN: 2349-2163**), Vol.2, No.3, pp.46-51, 2015.

39. **Lakshmi, K.** and Vasantharathna, S., “Gencos Wind-Thermal Scheduling Problem using Artificial Immune System Algorithm”, International Journal of Electrical Power and Energy Systems (ISSN: 0142-0615), **Elsevier**, Vol.54, pp.112-122, 2014.
40. **Lakshmi, K.** and Vasantharathna, S., “Genco’s Profit Based Unit Commitment Using Artificial Immune System in Day Ahead Competitive Electricity Markets” Journal of Applied Science and Engineering (ISSN:1560-6686), Vol. 17, No. 3, pp. 275-282, 2014.
41. Anil Kumar,C., and **Lakshmi, K.**, “Monitoring and detection of fault using phasor Measurement units” International Journal of Electrical, Electronics and Mechanical Controls (ISSN: 2319-7501), Vol. 3, No. 2, 2014.
42. Shalini, S.P., and **Lakshmi, K.**, “Solving Environmental Economic Dispatch Problem with Lagrangian Relaxation Method” International Journal of Electronic and Electrical Engineering (ISSN: 0974-2174), Vol.7, No.1, pp. 9-20, 2014.
43. **Lakshmi, K.** and Vasantharathna, S., “Hybrid Artificial Immune System Approach for Profit Based Unit Commitment Problem” Journal of Electrical Engineering and Technology (ISSN: 1975-0102), **Korean IEEE**, Vol.08, No. 05, pp.959-968, 2013.
44. **Lakshmi, K.** and Vasantharathna, S., “Refined Genetic Algorithm for Short Term Generation Scheduling Problem in Regulated and Deregulated Power System”, International Journal of Electrical Engineering (ISSN:0974-2158), Vol. 6, No.2, pp.115- 120, 2013.
45. **Lakshmi, K.** Dhanapal, M. and Vasantharathna, S., “Stochastic Modeling to Investigate the Impacts of Wind Power on Thermal Scheduling”, International Journal of Advanced Scientific and Technical Research (ISSN: 2249-9954), Vol.1, No.3, pp. 518-527, 2013.
46. **Lakshmi, K.** Karthickkumar, K and Vasantharathna, S., “Renewable Energy Sources Scheduling with Thermal Unit under Uncertainty in Deregulated Power System”, International Journal of Advanced Research in Electrical and Electronics Engineering (ISSN: 2321-4775),

Vol.1,No.2, pp.49-57, 2013.

47. **Lakshmi, K.** Karthickkumar, K and Vasantharathna, S., “Wind and Solar Energy Sources Scheduling with Thermal Unit in Deregulated Power System”, i-manager’s Journal on Power Systems Engineering (ISSN: 2321-7499), Vol.1, No.1, pp.30-36, 2013.
48. **Lakshmi, K.** and Vasantharathna, S., “Improved Genetic Algorithm for Constrained Generation Scheduling in Restructured Electricity Markets”, International Journal of Engineering Research and Studies (ISSN:0976-7916), Vol.1, No.1, pp. 71-82, 2010.

International Conference: 35

1. M. Kabil Dev, R. Kannan, M. Agarshan, S. Karthik, K. Lakshmi, “Automated Billing Smart Trolley and Stock Monitoring” **IEEE International Conference** on Computing Methodologies and Communication (ICCMC 2021), Erode, pp., April 2021. (<https://doi.org/10.1109/ICCMC51019.2021.9418043>)
2. S Kowshika, S.S Madhu mitha, G Madhu Varshini, V Megha, K Lakshmi, “IoT based Smart Shopping Trolley with Mobile Cart Application” **IEEE International Conference** on Advanced Computing and Communication Systems (ICACCS), Coimbatore, pp. March 2020. (<https://doi.org/10.1109/ICACCS51430.2021.9441866>)
3. R. Kavin, **K. Lakshmi**, S.Sheeba Rani and K. Rameshkumar, “Weather Monitoring System using Internet of Things” **IEEE International Conference** on Advanced Computing and Communication Systems (ICACCS), Coimbatore, pp.26-29, March 2020. (<https://doi.org/10.1109/ICACCS48705.2020.9074332>)
4. N. Loganathan, **K. Lakshmi** and N. Chandrasekaran, “ Smart Stick for Blind People”, **IEEE International Conference** on Advanced Computing and Communication Systems (ICACCS), Coimbatore, pp.65-67, March 2020. (<https://doi.org/10.1109/ICACCS48705.2020.9074332>)
5. Pavithra Y and **Lakshmi, K.** “Design of Modified Five Level H-Bridge Multilevel Inverter for Photovoltaic Systems” **Young Scientists’**

Conference (YSC), on Theme: Biodiversity-II, at India International Science Festival (IISF) 2019, Kolkata, Nov2019.

6. **Lakshmi, K.** and Boobalan, S, “Comparative Study and Analysis of Human Knee Angle Measurement System” Springer International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE-2019), organized by Guru Nanak Institutions, Nagpur, July, 2019.
7. **Lakshmi, K.** and Kesavan T, “Quick Search Optimization Algorithm Based Implementation And Virtual Power Plant For Distribution Network” Springer and IET International Conference On Frontiers In Smart System Technology, organized by Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, April 2019.
8. **Lakshmi, K.** and Gayathri, M, “Incremental Conductance Based Water Pumping System without Batteries” **IEEE International Conference** on Recent Advances in Engineering and Technology- ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Feb, 2019.
9. **Lakshmi, K.** and Kesavan T, “Novel bridgeless converter based SMPS with improved Power factor”, **IEEE International Conference** Recent Advances in Engineering and Technology- ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2018.
10. **Lakshmi, K.** and Kavin R, “Regenerative braking system for Electric Vehicle based on ANN”, **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2018.
11. **Lakshmi, K.** and Karthikeyan s, “Monitoring and controlling of VPP in presence of RES ”, **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2018.
12. **Lakshmi, K.** and Karthikeyan s, “Mathematical Model for Bionic Leg ”, **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore , Dec, 2018.
13. Priyadharshini J and **Lakshmi, K.**, “Clean Energy Based Plug-In Hybrid Vehicle for Controlling the Carbon Effluence” **Young Scientists’**

Conclave - SYPOG, at India International Science Festival (IISF) 2017, Chennai, Oct 2017.

14. **Lakshmi, K** and Loganathan, N, “Intelligent Commercial Demand Side Energy Management System for Demand Response in Smart Buildings” **IEEE International Conference** on Recent Advances in Engineering and Technology- ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2017.
15. **Lakshmi, K**, Nandhakumar and Priyadharshini, “Regenerative Braking System for Electric Vehicle based on ANN” **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2017.
16. **Lakshmi, K** and Karthikeyan S, “Novel Bridgeless Converter based SMPS with Improved Power Factor” **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2017.
17. **Lakshmi, K** and Keasavan T, “ Monitoring and Controlling of Virtual Power Plant in presence of Renewable Energy Resources” **IEEE International Conference** ICRAET organized by Sri Krishna College of Engineering and Technology, Coimbatore, Dec, 2017.
18. Loganathan, N. and **Lakshmi, K.**, “A Robust Energy Management System for Smart Grid” International Conference on Intelligent Computing and Applications (ICICA), pp.68-72, Feb.2016, Chennai, India.
19. Oshiya, A. and **Lakshmi, K.**, “Interval Optimization Technique for the Coordination of Hydro Units With Wind Power Generation” **IEEE International Conference** on Advanced Computing and Communication Systems (ICACCS -2016), ISBN: 978-1- 4673-9206-8, Jan. 2016, Coimbatore, India.
20. Kaleeswari, M. and **Lakshmi, K.**, “Energy Management for Plug in Hybrid Electric Vehicles Using Stochastic Optimization” **IEEE International Conference** on Advanced Computing and Communication Systems(ICACCS-2015),ISBN:978-4799-6438-3, Jan. 2015,Coimbatore.
21. Karthik, S. and **Lakshmi, K.**, “PMU Based Wide Area Backup Protection Scheme in Power Transmission Lines” **IEEE International**

Conference on Green Engineering and Technologies (IC-GET), ISBN: 978-1-4673-8625-8, pp.54-59, Nov.2015, Coimbatore, India.

22. Loganathan, N. and **Lakshmi, K.**, "Demand Side Energy Management System using ANN based Linear Programming Approach" **IEEE International Conference** on Computational Intelligence and Computing Research (2014 IEEE ICCIC), ISBN:978-1- 4799-3974-9, pp. 813-817, Dec.2014, Coimbatore, India.
23. Shalini, S.P., and **Lakshmi, K.**, "Solving Environmental Economic Dispatch Problem with Lagrangian Relaxation Method" International Conference on Renewable Energy Utilization (ICREU-2014), pp.83-87, Jan. 2014, organized by Coimbatore Institute of Technology , Coimbatore, India.
24. Kaleeswari, M. and **Lakshmi, K.**, "Energy Management for Plug in Hybrid Electric Vehicles Using Stochastic Optimization" International Conference on Advances in Control and Computing of Analog and Digital Systems, pp.31-35, Dec.2014, organized by Coimbatore Institute of Technology , Coimbatore, India.
25. **Lakshmi, K.** and Dhanapal, M., "Co-Ordination of Thermal Unit System with Wind Energy System for Scheduling Problem in Restructured Power System" Green High Performance Computing (ICGHPC), 2013 **IEEE International Conference** on, pp.1-7, March 2013, Nagercoil, India, DOI:10.1109/ICGHPC.2013.6533927.
26. **Lakshmi, K.** and Karthickkumar, K., "LR- PSO Method of Generation Scheduling Problem for Thermal-Wind-Solar Energy System in Deregulated Power System" Green High Performance Computing (ICGHPC), 2013 **IEEE International Conference** on, pp.1-7, March 2013, Nagercoil, India, DOI: 10.1109/ICGHPC.2013.6533928.
27. **Lakshmi, K.** and Santhoshkumar, "Short term generation scheduling of thermal units with CO2 emission limitation in deregulation environment" Computing, Electronics and Electrical Technologies (ICCEET), 2012 **IEEE International Conference** on, pp.104,108, March 2012, Kumaracoil, India, DOI: 10.1109/ICCEET.2012.6203822.
28. **Lakshmi, K.** and Santhoshkumar, G, "Short term generation scheduling of thermal units with SO2 emission limitation in deregulation environment," Advances in Engineering,

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