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**Research and Development  
Journal Publications 2025-2026**

**Department of Electrical and Electronics Engineering**

S NO	FACULTY NAME	AUTHORS NAME	PAPER TITLE	JOURNAL NAME	VOL, ISSUE, PAGE NO	HTTP LINK
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1	Dr. S.S ELV I	Mohanasubha Ramasamy, S. Senthamizh Selvi, Anitha Karthikeyan, S. Dinesh Vijay & Karthikeyan Rajagopal	Interplay of flux-controlled memristive synapse and Josephson junction properties in modified Morris–Lecar neuron dynamics	Cognitive Neurodynamics	19	article number 119,	<a href="https://link.springer.com/article/10.1007/s11571-025-10308-z">https://link.springer.com/article/10.1007/s11571-025-10308-z</a>
2	Dr. D SILAS STEPHEN	Anbuchandran, S., Arumugababu, M., Silas Stephen D and Thinakaran M	Dynamic voltage regulation in DC microgrids using super-twisting sliding mode controllers	Springer - Electrical Engineering	107	14205-14227	<a href="https://link.springer.com/article/10.1007/s00202-025-03256-8">https://link.springer.com/article/10.1007/s00202-025-03256-8</a>



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	K.B. Anusha , Dr. Kantilal Rane, Silas Stephen D, Nandini K, V.Dickson Irudayaraj and Amara S A L G Gopala Gupta	Energy Harvesting from Ambient Vibrations Using Piezoelectric Materials: A Sustainable Approach To Powering lot Devices	Internation al Journal of Environm ental Sciences,	1 1	23s	Oct -18	<a href="https://theaspd.com/index.php/ijes/article/view/8180">https://theaspd.com/index.php/ijes/article/view/8180</a>
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	<p>Jinu Sophia, J., Prem Jacob, T., Silas Stephen, D.</p>	<p>Visual Question Answering Model Using Transformer- Based Multi- Head Cross Attention Network with Optimized Gold Rush Octave Convolution Network</p>	<p>International Journal of Image and Graphics</p>	<p>3 . 0 0 E + 0 6</p>	<p><a href="https://www.worldscientific.com/doi/10.1142/S021946782750077X?srsltid=AfmBOorTT5xxHDcUB9M3BIrlx9rIGlnHQ_zphQMFQbApwDJtUfvJJatc">https://www.worldscientific.com/doi/10.1142/S021946782750077X?srsltid=AfmBOorTT5xxHDcUB9M3BIrlx9rIGlnHQ_zphQMFQbApwDJtUfvJJatc</a></p>



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3	Dr. P.S. RAMA PRABA Dhanya. D. N Krishnamoorthy, P S Ramapraba, Kancharla Nagababu, K. Balaji	Deep Learning Driven Anomaly Detection in Social Graphs by Using Anti-Corona Political Optimization	International Journal of Basic and Applied Science	1 4	4(2 02 5)	22 0- 22 8	<a href="https://www.sciencepubco.com/index.php/IJBAS/article/view/34603">https://www.sciencepubco.com/index.php/IJBAS/article/view/34603</a>
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	M. DHANALAKS HMIa, P. S. RAMAPRAB A, DHIVAKAR POOSAPADI, A. S. PRAKAASH, RAGHUNATH MANDIPUDI, R. RENUGADEVI	REVOLUTIONISING WATER DESALINATION: THE TRANSFORMATIVE POTENTIAL OF NANOSTRUCTURED MATERIALS FOR ENHANCED EFFICIENCY, SUSTAINABILITY, AND SCALABILITY	Journal of Environmental Protection and Ecology	26,	No 4,	1370 – 1381 (2025)	<a href="https://scibulcom.net/en/journal/1311-5065/articles?search=%2026,%20No%204,%201370%E2%80%931381%20%282025%29">https://scibulcom.net/en/journal/1311-5065/articles?search=%2026,%20No%204,%201370%E2%80%931381%20%282025%29</a>
	<a href="#">Yezhilvanan</a>	Customized RES Integrated with	<a href="#">2025 11th Internation</a>				<a href="https://ieeexplore.ieee.org/document/11213023">https://ieeexplore.ieee.org/document/11213023</a>



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		Efficient Energy Storage and Optimized Distribution for Enhancing Sustainability in Smart City	<a href="#">al Conference on Electrical Energy Systems (ICEES)</a>				
	<a href="#">H;Amrutha</a>						
	<a href="#">Arunodhayan;Sanjai</a>						
	<a href="#">J;Sujitha</a>						
	<a href="#">Subash;Karanchandiran</a>						
	<a href="#">L;P.S Ramapraba</a>						
4	Dr. R.D HARMA PRAKASH	E Parimalasundar, R Senthil Kumar, R Jayanth, R Dharmaprakash, N Rajavin, I Arul Doss	ADVANCED 15-LEVEL INVERTER DESIGN FOR SOLAR PV INTEGRATION	Kufa Journal Of Engineering	16	3	16-175 <a href="https://doi.org/10.30572/2018/KJE/160311">https://doi.org/10.30572/2018/KJE/160311</a>



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	E. Parimalasundar, S. Muthukaruppasamy, S. Sendil Kumar, R. Dharmaprakash, S. Jayakumar, T. Nageswara Prasad	Networks with Fire Hawk Optimization	SSRG International Journal of Electrical and Electronics Engineering	12	5	138-152	<a href="https://doi.org/10.14445/23488379/IJEEE-V12I5P113">https://doi.org/10.14445/23488379/IJEEE-V12I5P113</a>
	Arunraja A.*, Kishorekumar R., Sangeetha D., Dharmaprakash R.,	A Novel Investigation on p-GaN GATE with and	Journal of VLSI Circuits and Systems	7	1	167-175	<a href="https://doi.org/10.31838/JVCS/07.01.18">https://doi.org/10.31838/JVCS/07.01.18</a>



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	Bharaty K.S., Balamanikan dan A.	without AlGaN Back Barrier for AlGaN/GaN High					
		Electron Mobility Transistors					



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	<p>Kumar Reddy Cheepati, V. Mahesh Kumar Reddy, Avagaddi Prasad, S. Kamalakkann an, E. Parimalasund ar,</p>	<p>Design and Implementation of a Photovoltaic Solar Powered Ice Cube Making Machine for off Grid Applications</p>	<p>SSRG Internation al Journal of Electrical and Electronic s Engineeri ng</p>	<p>1 2</p>	<p>5</p>	<p>23- 31</p>	<p><a href="https://doi.org/10.14445/23488379/IJEEE-V12I5P103">https://doi.org/10.14445/23488379/IJEEE-V12I5P103</a></p>
	<p>R. Dharmapraka sh+D18:E18</p>						





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	<p>Deepa Somasundaram, V.            Pramila, G.            Ezhilarasi, D.            Lakshmi, P.            Kavitha, R.            Kalaivani</p>	<p><a href="#">Automated defect detection in submersible pump impellers using image classification</a></p>	<p>Indonesia n Journal of Electrical Engineering and Computer Science</p>	<p>Vol . 40 ,</p>	<p>No. 2</p>	<p>11 58-11 66</p>	<p><a href="http://doi.org/10.11591/ijeecs.v40.i2.pp1158-1166">http://doi.org/10.11591/ijeecs.v40.i2.pp1158-1166</a></p>
	<p>Dr.S.Deepa</p>	<p>Multi-Objective Optimization for EV Charging Station Placement Considering</p>	<p>International Journal of Power Electronics and Drive System (IJPEDS</p>				



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		Renewable Energy Integration and Grid Load Management						
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6	Dr. N. MA NOJ KU MA R	Arul Kumar Subramanina , Tamirat Tagasse, Manoj Kumar N	Dynmaic Modelling and Control of Smart Grids with distributed Energy Resources using machine Learning Approaches	Journal of Electrical Engineeri ng and Technolog y				
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	Dr.Panner Selvam, Dr, Gurinder pal Singh, Kodeeswara Kumar G, Manoj Kumar N	Optimize the Energy management of Microgrid Integrating Renewable Sources and Electric Vehicle Using Coati Optimization Algorithm	Computer s and Electrical Engineeri ng				<a href="https://doi.org/10.1007/s13198-025-03110-x">https://doi.org/10.1007/s13198-025-03110-x</a>
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		Design and Implementation of AC-DC Converter for Long Lifespan LED Driver					-
	Dr Sumithra J, Manoj Kumar N, Hariharan N, Magesh T,	Robust Optimization of FOPID Controllers for LVRT Enhancement in DFIG Wind Turbines under Weak-Grid Conditions	Electric Power Systems Research				-



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	N. Manoj Kumar , Yousef Farhaoui ,* , R. Vimala , M. Anandan , M. Aiswarya and A. Radhika	Innovative Control Techniques for Enhancing Signal Quality in Power Applications: Mitigating Electromagnetic Interference	Algorithms	1 8	28 8	Ja n- 23	<a href="https://doi.org/10.3390/a18050288">https://doi.org/10.3390/a18050288</a>
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7	Dr. B. MU THU RAJ	Bhaskarrao Yakkala · M. Raja · V. Elumalai · B. Muthuraj · L. Umasankar	A hybrid artificial intelligence framework for predicting electrical	Journal of Computational Electronics	24	<a href="https://doi.org/10.1007/s10825-025-02421-3">https://doi.org/10.1007/s10825-025-02421-3</a>
			and thermal properties of graphene nanoplatelet-enhanced			
			nanoelectronic materials			



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8	Dr. A.SI VAKUMAR	Saritha Kandukuri, Ramesh Guguloth, A. Sivakumar, I. Shivasankkar, Ananthan Nagarajan,	An effective power quality enhancement system for integrated photovoltaic cells utilizing cascaded ANFIS in a unified power quality conditioner	Future Technology	4	3	17 1- 18 1	<a href="https://fupubco.com/futech/article/view/310">https://fupubco.com/futech/article/view/310</a>
	N. Janaki							



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	R Essaki Raj, A. Sivakumar, Anish Kumar, Marshall Arockia Dass P, and M.N.V. Kiranbabu.	Development and implementation of an intelligent garbage container for a municipal wastage management system	Internation al Journal of Environm ent and Waste Managem ent				
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	A Sivakumar	Photo sensing Properties+bifunctional optoelectronic and DSSC applications	Engineering Journal				
	A Sivakumar	Optimization Energy Management in Solar FC-HEV for Efficient Power Distribution using Starfish Optimazation Algorithm	Journal of Energy Storage				-



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	A Sivakumar, A FAYAZ AHAMED	Adaptive Deep Neural Network Control of Switched- Capacitor LED Drivers for Reduced Thermal Degradation and Improved Luminous Efficiency	IEEE Transaction on Networkin g						
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9	Dr.L AVA NYA DHANESH	K. UMAMAHESWARA RAO <sup>a</sup> , V. BEULA SHANTHI AMMANI AMMAL <sup>b</sup> ,	REAL-TIME in-situ FTIR-ELECTROCHEMICAL ANALYSIS OF	Oxidation Communications	48	No: 3	11	<a href="https://www.scopus.com/pages/publications/105021495343?origin=resultslist">https://www.scopus.com/pages/publications/105021495343?origin=resultslist</a>
		LAVANYA DHANESH <sup>c</sup> , S. M. PRAKASH <sup>d</sup> , K. V. BALARAMAK RISHNA <sup>e</sup> ,	CHARGE STORAGE PROCESSES IN SOLAR-INTEGRATED				10-11-22	



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	P. VENKATESA Nf, B. KIRUTHIGA g, JIM MATHEW PHILIPh, A. RAJARAMi	SUPERCAPACI TORS WITH REAL-TIME STABILITY				
		PROFILING				



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	Ashok. B, Sumithra. J, Lavanya Dhanesh, Kat uri Rayudu, S. Ani tha Jebamani.	Advancing Frequency Regulation in Renewable Interconnected Power Systems Through Hybrid Machine Learning and Control Theory Model	Electric Power Components and Systems				
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	Sheelamariya antony, Aarthi, Lavanyadhanesh,	"A BERT-Driven Deep Learning Framework for Enhanced Fake News Detection and Classification Across Diverse Data Sources"	Intelligent Decision Technologies				
	Jayanthigovindaraju, Mageswaranr.						



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10	Dr. G.M ERL IN SUBA	R.Sumathi, Vijaykumar Kamble, G.Merlin Suba, T.Aravind, Pasupulati Vijay Shankar	Deep Learning Driven Short Term Solar Radiation Forecasting System Using Temporal Attention Gated Convolutional Network Model	International Journal of Electrical and Electronics Engineering	12	0-132	<a href="https://www.internationaljournalsrg.org/IJEEE/2025/Volume12-Issue8/IJEEE-V12I8P112.pdf">https://www.internationaljournalsrg.org/IJEEE/2025/Volume12-Issue8/IJEEE-V12I8P112.pdf</a>
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1	Dr. C.T. MA NIK AND AN	venkatesh kumar pandiyan, aravinda, pushpalatha, manikandan Chidambara sekar	optimized PV - DVR system for power quality advancement in grid	Environment engineering and management journal	vol 24	no 6	12-12-25	<a href="http://doi.org/10.30638/eemj.2025.094">http://doi.org/10.30638/eemj.2025.094</a>
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	Manikandan Chidambara sekar	An optimal planning of microgrids with uncertain and stochastic charging /discharging EV : Hybrid approach	Applied soft computing journal				
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1 2	Ms. D.S HO BAN A	Shobana Devendiren, R. Samuel Rajesh Babu, Subbulakshmi Ramamurthi	Buck-boost converter Fed nine level cascaded H- bridge inverter	International Journal of Power Electronics and Drive System (IJPEDS)	1 6	2	11 07- 11 15	<a href="http://doi.org/10.11591/ijpeds.v16.i2.pp1107-1115">http://doi.org/10.11591/ijpeds.v16.i2.pp1107-1115</a>
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	Subbulakshmy Ramamurthi, P. Velmurugan, Shobana Devendiren, Manivannan. S	Time-Domain Performance Analysis of High Step-Up QBC with Self-Lift Circuit under SMC and FOPID Control	International Journal of Power Electronics and Drive System (IJPEDS)	16	4	2491 – 2499	<a href="http://doi.org/10.11591/ijpeds.v16.i4.pp2491-2499">http://doi.org/10.11591/ijpeds.v16.i4.pp2491-2499</a>
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1 3	Mrs. S.L AKS HMI	S.Nagarajan, J.Jeba Johannah, E. Malarvizhi, S.Lakshmi	Enhancing VLSI circuit performance prediction through qualitative data augmentation using mixed- decomposed convolution network	Analog integrated circuits and signal processin g				
1 4	Mr. N. KAR THI KEY AN	Raghupathi M	Advanced Control Architectures For	Internation al Journal of Power Electronic s and Drive	1 6	4		<a href="https://d1wqtxts1xzle7.cloudfront.net/125712944/42_23996-libre.pdf?1765535269=&amp;response-content-disposition=inline%3B+filename%3DAdvanced_control_architectures_for_enhan.pdf&amp;Expires=1770197171&amp;Signature=Nea44XETPHs3dc1">https://d1wqtxts1xzle7.cloudfront.net/125712944/42_23996-libre.pdf?1765535269=&amp;response-content-disposition=inline%3B+filename%3DAdvanced_control_architectures_for_enhan.pdf&amp;Expires=1770197171&amp;Signature=Nea44XETPHs3dc1</a>



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	Susitra D	Enhanced Simulation And Operational Analysis Of Solar Pv-Driven Vehicle Systems	System (IJPEDS)				<a href="https://doi.org/10.1504/IJPELEC.2025.149601">NqYOVS3yThyhRcD0H2KQ- lo35Gsc~yfYyVNGNi22mlqIM1B0SLg1SDIK~ UBW8xqNfPGU6dBnr5WVu6mT76ChpJliUsxT hIDGHXsYZ4~IP~ZSZUCPwdiy6LtaJJiwPibEz AeDPy7cl1Z5LfNg6sQa~E8JW523qwYAx5KV SJONMhnP8WByjeEwK6eFSUMYutJJhxbGm d14SQ5fQ5~fMwtM1LkzsCmwW- quEe2zTHB01AlwBf9F9Zb1kvTgAzQfq- raf~yB4mn0c~LAlp8laCVElpO15l9aMbbjNVid p2wj70HkKKtiwhG8GLKT- udBiSPaoM1Tg &amp;Key-Pair- Id=APKAJLOHF5GGSLRBV4ZA</a>
	Karthikeyan N						
	Jabinbanu M. Nadaf*	Hybrid wind solar energy system with qZSI for	Int. J. Power Electronics,	2	1	6	56 0- 57 6
	Chinthalacheruvu						
	N. Karthikeyan						
	Ralli Sangno						
							<a href="https://doi.org/10.1504/IJPELEC.2025.149601">https://doi.org/10.1504/IJPELEC.2025.149601</a>



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15	Mr. K.P. DIN AKA RAN	K. Ravi Prakash Babu	optimal power point tracking	International Journal of vehicle structure and Systems	17	2	326-331	<a href="https://doi.org/doi:10.4273/ijvss.17.2.22">https://doi.org/doi:10.4273/ijvss.17.2.22</a>
		B. Raghukumar						
		M. Lakshmu Naidu						
		K.P. Dinakaran						
		Nemala Jayasri Pellakuri Vidyullatha,	Quantum Computing Approaches to Autonomous Mobile Robots and Multi-Machine Systems: A Perspective on Design Automation	JOURNAL OF NANO- AND ELECTRONIC PHYSICS	17	3020	01-Jun	<a href="https://doi.org/doi:10.21272/jnep.17(3).03020">DOI:10.21272/jnep.17(3).03020</a>
		Saravanan,						
		Anil Kumar Muthevi,						
K.P. Dinakaran,								



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	Nageswara Rao Medikodu,					
	Nemala Jayasri Pellakuri Vidyullatha,	Dynamics and Optimization of Physical Processes in Information Systems Using				
	Saravanan ,	Autonomous Mobile Robots and Multi-Agent Systems	JOURNAL OF NANO- AND ELECTRONIC PHYSICS	17	3025	01-Jun
	Anil Kumar Muthevi,					
	K.P. Dinakaran,					
						<a href="https://doi.org/10.21272/jnep.17(3).03025">DOI:10.21272/jnep.17(3).03025</a>



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		Nageswara Rao Medikonda,						
16	Mrs. M.J. SU GA NYA	J. Sumithra, J. C. Vinitha, M. J. Suganya, M. Anuradha, P. Sivakumar, R. Balaji	<a href="#">Machine learning techniques for solar energy generation prediction in photovoltaic systems</a>	<a href="#">International Journal of Power Electronics and Drive Systems Open source preview</a>	16	3	2055-2062	<a href="http://doi.org/10.11591/ijpeds.v16.i3.pp2055-2062">http://doi.org/10.11591/ijpeds.v16.i3.pp2055-2062</a>



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	<p>J. Sumithra,          J. C. Vinitha,          M. J.          Suganya, M.          Anuradha, P.          Sivakumar,          R. Balaji</p>	<p>Predictive          machine learning          for smart grid          demand          response and          efficiency          optimization</p>	<p><a href="#">Internation          al Journal          of Power          Electronic          s and          Drive          SystemsO          pen          source          preview</a></p>	<p>1          6</p>	<p>3</p>	<p>16          28-          16          36</p>	<p><a href="http://doi.org/10.11591/ijpeds.v16.i3.pp1628-1636">http://doi.org/10.11591/ijpeds.v16.i3.pp1628-1636</a></p>
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17	Dr. S.P USH PA	Lakshmi Dhandapani, Pushpa Sreenivasan, Sangeetha Murugan, Helaria Maria, Sudipta Banerjee	Enhancing voltage stability in active distribution networks through solar PV integration	International Journal of Power Electronics and Drive System (IJPEDS)	16	2	1137-1146	<a href="http://doi.org/10.11591/ijpeds.v16.i2.pp1137-1146">http://doi.org/10.11591/ijpeds.v16.i2.pp1137-1146</a>
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	Jayashree kathirvel, Pushpa Sreenivasan, M. Vanitha, Soni Mohammed, T. Sathish Kumar, I. Arul Doss Adaikalam	Enhanced Integration of Renewable Energy and Smart Grid Efficiency with Data-Driven Solar Forecasting Employing PCA and Machine Learning	International Journal of Power Electronics and Drive System (IJPEDS)	1 6	4	26 45- 26 54	<a href="http://doi.org/10.11591/ijpeds.v16.i4.pp2645-2654">http://doi.org/10.11591/ijpeds.v16.i4.pp2645-2654</a>
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	LAKSHMI DHANDAPA NI, PUSHPA SREENIVAS AN, MALATHY Batumalay	Step size Variability with High Performance Solar-Wind Grid Integration Using MPPT Algorithm	Internation al Journal of Power Electronic s and Drive System (IJPEDS)	1 6	4	26 55- 26 64	<a href="http://doi.org/10.11591/ijpeds.v16.i4.pp2655-2664">http://doi.org/10.11591/ijpeds.v16.i4.pp2655-2664</a>
	Jayashree kathirvel,S Pushpa,P Kavitha ,Sathya Sureshkumar ,Kannan Andi ,P Prabakaran	Machine Learning-Based Real-Time Power Stability Optimization for Photovoltaic Systems Using Hybrid Inductor- Capacitor Patterns	Internation al Journal of Applied Power Engineeri ng (IJAPE)				-



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