

**VARDHAMAN COLLEGE OF ENGINEERING  
HYDERABAD**

**ICSGET 2024**

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Sl. No	ID	Paper Title	Author Name(s)	Track	Mode	Track No	Date and Time
1.	03	Storage Solutions for Sustainable Futures: Integrating Batteries, Supercapacitors, and Thermal Storage	Venkataramana Guntreddi, Vasupalli Manoj, M. Ramasekhara Reddy, Narendra Kumar Yegireddy, Aakula Swathi, Ramakrishna Raghutu	Advanced Energy Storage Solutions	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm
2.	21	Utilizing Artificial Neural Networks for Intelligent Battery Energy Storage Control in Microgrid Energy Management	J. Rajalakshmi, S. N. Nisha Rani	Advanced Energy Storage Solutions	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm
3.	33	Harnessing Supercapacitors for Sustainable Energy Storage: A Technical Overview and Critical Analysis	Santosh Kumar Sahu, P. S. Rama Sreekanth, Nitesh Dhar Badgayan, Tunji John Erinle	Advanced Energy Storage Solutions	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm
4.	59	Numerical Analysis of Solar Collector Absorber Tubes with C-shaped Roughness for Enhanced Heat Transfer	Abhishek Agarwal	Advanced Energy Storage Solutions	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm
5.	98	Biocompatible Nanomaterials for Sustainable Biomedical Applications	Amit Dutt, Neha Saini, Akhilesh Kalia, Praney Madan, T Srikanth, Soumita Talukdar	Advanced Energy Storage Solutions	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm
6.	135	Electrical Parameter Design and Optimization of Permanent Magnet Synchronous Machine Drive	Amit Kumar, Vigneselvan Sivasubramaniyam, Suganthi Ramasamy, Gianluca Gatto	Electric Mobility and Transportation Sustainability	Online	3	14 <sup>th</sup> June 2.00 pm to 4.00 pm

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Sl. No	ID	Paper Title	Author Name(s)	Track	Mode	Track No	Date and Time
1.	28	Performance Analysis of Electrical Vehicles Batteries using Kalman Filter	G. Sreeramulu Mahesh, Divya. C, Monisha K., N. Asfa Fathima, P. S. Ranjit	Electric Mobility and Transportation Sustainability	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm
2.	44	Multi Orthogonal Review of Modern Demand Forecasting Lines and Computational Limitations in Green Urban Mobility	G. Shivaji Rao, A. Vincent Antony Kumar, M. Jaiganesh	Electric Mobility and Transportation Sustainability	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm
3.	53	Green Metropolis: Balancing Sustainable Energy Innovations and Authentic Urban Landscapes	Eko Nursanty, Arturo G. Cauba Jr, Djudjun Rusmiatmoko, Wawan Destiawan	Electric Mobility and Transportation Sustainability	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm
4.	82	Enhancing Electric Vehicle Efficiency with a Novel SIMO DC-DC Converter: Integrating Multiple Speed Transmissions and Regenerative Braking	B Velliyangiri, R Dharaneesh, G Bala Surya, T Ragul kannan, K Boopathi	Electric Mobility and Transportation Sustainability	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm
5.	129	Sustainable development of human potential – is a strategic priority for ensuring national security of Country	Ajiniyaz Musagaliev, Anatoly Gretchenko,, Galina Gagarina, Irina Gorokhova, Alexander Gretchenko	Sustainable development	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm
6.	91	Solar wireless electric vehicle charging system	O.P. Suresh, Salava V Satyanarayana P, Hema Bindu, K Anand, N Srujith Kumar, V Sujith	Electric Mobility and Transportation Sustainability	Online	4	14 <sup>th</sup> June 2.00 pm to 4.00 pm

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Sl. No	ID	Paper Title	Author Name(s)	Track	Mode	Track No	Date and Time
1.	62	IOT Based Automated Indoor Hydroponic Farming System	Vanidha Suresh, T. Logasundari, V. Shanmukha Sravani, Muqthiar Ali, Suresh Srinivasan	Green Electronics and Energy-Efficient Circuits	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm
2.	79	Digital Agriculture: Harnessing IoT and Data Analytics for Smart Farming Solutions	D Ravichandran, S Dhanabalan, A Santhanakrishnan, S Sarveshwaran, R Yogesh	Green Electronics and Energy-Efficient Circuits	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm
3.	15	Comparative analysis of various restructured Quadratic Boost DC-DC converter	Divya Navamani Jayachandran, Boopathi Kathirvel, Lavanya Anbazhagan	Green Energy Generation and Integration	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm
4.	60	Power Loss Reductions and Voltage profile improvement through Fuzzy and AO algorithm for effective system operation by optimal placement of UPFC	V. Suryanarayana Reddy, A. Immanuel, M. Mahesh, I. Kumaraswamy, P. Vishnuvardhan	Green Energy Generation and Integration	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm
5.	63	Efficient power system operation through fuzzy and PSO algorithm for power loss reductions and voltage profile improvement by optimal placement of D-STATCOM	S Vasiha Anjum, S Mallikarjunaiah, G Balakrishna, Aruna Bonasi, Ramesh Matham	Green Energy Generation and Integration	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm
6.	90	Life Guardian: Enhancing Health Awareness Through Sensor Fusion	Salava V Satyanarayana, Pillalamarri Madhavi, G Arthi, K sathwika, L Suman, Shaik Abdul Adil	Energy-Efficient Circuits	Online	5	14 <sup>th</sup> June 2.00 pm to 4.00 pm

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1.	100	Green Materials for Sustainable Water Desalination: Nanocomposite Membranes	Gazal Sharma, Rajat Singh, Prabhjot Kaur, Nishant Bhardwaj, Lavanya C, Shradhey	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM
2.	101	Green Synthesis of Nano catalysts for Sustainable Petrochemical Refining	Tara Singla, Deepa Bisht, Madhur Taneja, Sanjay Bhatnagar, Hemalatha K, Soumita Talukdar	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM
3.	102	Green Synthesis of Nanocomposite Catalysts for Environmental Remediation	Alok Jain, Sunil Prakash, Shubhansh Bansal, Rajeev Sharma, GVV Satyanarayana, Binitendra Naath Mongal	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM
4.	103	Nanomaterials in Tissue Engineering for Sustainable Healthcare Solutions	Balpreet Singh, Babita Rawat, Jaspreet Sidhu, Arvind Kumar Sakshi Sobti, Akula Prakash, Sonia	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM
5.	110	Life Cycle Analysis of Sustainable Energy Storage Technologies: Comparative Study	Mukul Mishra, Amit Dutt, Neha Saini, Akhilesh Kalia, Praney Madan, T Srikanth, Soumita Talukdar	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM
6.	136	Optimizing Efficiency of Solar Double-Pass Air Heater Through Fluid Combination Approach	Abhishek Agarwal	Advanced Energy Storage Solutions	Online	1	15 <sup>th</sup> June 10.00 AM – 12.30 PM

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Sl. No	ID	Paper Title	Author Name(s)	Track	Mode	Track No	Date and Time
1.	104	Polymer Matrix Nanocomposites for Lightweight Sustainable Automotive Parts	Archana Sehgal, Deepti Sharma, Ansh Kataria, Raman Verma, C Vivek Kumar, Binitendra Naath Mongal	Electric Mobility and Transportation Sustainability	Online	2	15 <sup>th</sup> June 10.00 AM – 12.30 PM
2.	112	Sustainable Vision-Based Navigation for Autonomous Electric Vehicle Charging	Nandini Srivastava, Harminder Singh, Mohsin Ikram, Nipun Setia, Prabhat Sharma, V Siva Prasad Raju, Shivani Kampani	Electric Mobility and Transportation Sustainability	Online	2	15 <sup>th</sup> June 10.00 AM – 12.30 PM
3.	126	Optimal Energy Management and Control Strategies for Electric Vehicles Considering Driving Conditions and Battery Degradation	Vasupalli Manoj, Venkataramana Guntreddi, Pilla Ramana, Bathula Vineela Rathan, Mavuduru Sasi Kowshik, Sathapasthi Pravallika	Electric Mobility and Transportation Sustainability	Online	2	15 <sup>th</sup> June 10.00 AM – 12.30 PM
4.	99	Enhanced Water Treatment using Sustainable nanomaterial-based Adsorbents	Lalit Bhalla, Archana Saxena, Pratibha Sharma, Tannmay Gupta, Pvvssr Krishna, Anjali Vyas	Advanced Energy Storage Solutions	Online	2	15 <sup>th</sup> June 10.00 AM – 12.30 PM
5.	51	Forecasting of effluent from wastewater treatment industries using a novel Fuzzy logic system	M. Chiranjivi, K. Suresh, A. Anand Kumar, M. Siddartha, M. Ravi Teja, M. Rani	Green Electronics and Energy-Efficient Circuits	Online	2	15 <sup>th</sup> June 10.00 AM – 12.30 PM

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1.	93	Enhancing Rotation in Quadruped Robots Using Multi-Degree-of-Freedom Tails	R Rajkumar, J Stephen Ponraj, M Gowtham, M Yathish prasanna, P Divakaran	Green Electronics and Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM
2.	94	Development of an Artificial Intelligent Firefighting Robot and Experiment Investigation on Fire Scene Patrol	M Sivakumar, P Kanakarajan, S Dharun, R Kirubakaran, M Girivasan	Green Electronics and Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM
3.	105	Recycling of Solar Panels: Sustainable Disposal of Photovoltaic Materials	Rajat Gera, Harminder Singh, Mohsin Ikram, Nipun Setia, Prabhat Sharma, V Siva Prasad Raju, Shivani Kampani	Green Electronics and Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM
4.	106	Sustainable Approaches for Recycling Lithium-ion Battery Materials	Rajat Gera, Nitin Bhardwaj, Neeti Mishr, Vaibhav Kaushik, Girish Kalele, O S D Hima Bindu, Priyanka Sharma	Green Electronics and Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM
5.	127	How does using interactive electronic affect psychological well-being? An empirical investigation	Swati Sharma, Kavita Sharma	Green Electronics and Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM
6.	57	A Novel Technology for Smart shopping trolley system	M. Chiranjivi, A Durga rao, B Chiranjeevi rao, R Nikhil Raj, S Hukesh	Energy-Efficient Circuits	Online	3	15 <sup>th</sup> June 10.00 AM – 12.30 PM

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1.	131	Performance And Analysis of Soft Computing Techniques Learning With Energy Management Framework In IoT Networks	Vanitha, Radhika, Umayal Muthu	Green Electronics and Energy-Efficient Circuits	Online	4	15 <sup>th</sup> June 10.00 AM – 12.30 PM
2.	67	Real Time Monitoring and Analysis of String Faults In Solar Plant Using IoT	B.V. Sai Thrinath, B. Lakshmi Prasanna, John Powl. S, N. Sreeramula Reddy, Nagalingachary K, P Ponmurugan	Green Energy Generation and Integration	Online	4	15 <sup>th</sup> June 10.00 AM – 12.30 PM
3.	68	PSO and GSS algorithms are used to arrange DG optimally for voltage profile enhancement and loss reduction	T. Arun kumar, V.Suryanarayana reddy, P. Dhana Selvi, B. Krishnakanth, G. Sudeep	Green Energy Generation and Integration	Online	4	15 <sup>th</sup> June 10.00 AM – 12.30 PM
4.	80	Numerical Investigation of Solar Still Desalination Efficiency Across Different Salinity Levels	S Balakrishnan, R Harish, R Mukesh, K Rajkumar, R Seenivasan	Green Energy Generation and Integration	Online	4	15 <sup>th</sup> June 10.00 AM – 12.30 PM
5.	84	Optimizing Motor Performance with Improved Fractional Order Darwinian Particle Swarm Optimization and Fuzzy Logic Controllers: A Comparative Study in Torque Control	M Mohamed Ajmal Mahasin, R Sanjay, D Rathinavel, E Raviprakash, V Vinubalan	Green Energy Generation and Integration	Online	4	15 <sup>th</sup> June 10.00 AM – 12.30 PM

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1.	87	Experimental Evaluation of Solar-Powered Desalination Ponds in Waste Water Treatment	M Sengottaiyan, A Inesh, R Manokar, R Manova Arputharaj, R Vijayaragavan	Green Energy Generation and Integration	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM
2.	107	Sustainable Energy Conversion via Organic Photovoltaics: Material Selection and Evaluation	Vishal Sharma, Mansi Nautiyal, Pavas Saini, Sahil Khurana, venkat s charyulu, Anjali Vyas	Green Energy Generation and Integration	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM
3.	128	Investing Solar Bifacial Half Cut Single PV Panel for Enriched Power Delivery and System Stability Using Hybrid Approaches	Kante Venkatadurgaprasad, Barry Venugopal Reddy, Gadiraju Harish Kumar Varma, Soumitra Das	Green Energy Generation and Integration	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM
4.	139	Mitigating Partial Shading Effects in Photovoltaic System using Intelligent Current Compensation Method	Devakirubakaran S, Karpaga Priya R, Dhananjaya Babu K, Koganti Srilakshmi, Deepak M	Green Energy Generation and Integration	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM
5.	66	Enhancing Power Quality in Integrated PV Systems and DFIG Systems through MPPT and Fuzzy logic controller for Grid Systems	S Vasiha Anjum, V Suryanarayanareddy, Mallela Leela Mounika, Nellore Yamini, M. Sai Sandeep	Smart Grids and Sustainable Infrastructure	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM
6.	111	Utilizing Particle Swarm Optimization Techniques for the Development of Sustainable Solar-Wind Hybrid Microgrids	Alok Jain, Sunil Prakash, Shubhansh Bansal, Rizwan khan Rajeev Sharma, GVV Satyanarayana, Binitendra Naath Mongalc	Smart Grids and Sustainable Infrastructure	Online	5	15 <sup>th</sup> June 10.00 AM – 12.30 PM