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# Program

IEEE 2023: 1st International Conference on Renewable Solutions for Ecosystems: Towards a Sustainable Energy Transition

[ICRSEtoSET 2023](#), Djelfa on May 06-07, 2023, Algeria

**Day 01: Saturday, May 06, 2023.**

**(Updated on 05/05/2023 at 18:30)**

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Chapters



8 h – 9 h 00	Registration
9 h 00 – 09 h 45	<b>Opening Ceremony ( Faculty conference room )</b> Prof El Hadj AILAM, Prof Abdellah Kouzou, Prof Rachida Bouallouche, Dr Aissa Mfedjekh, Dr Abdelhamid Iratni
09 h 45 – 10 h 45	<b>Plenary Session 1</b> The Futuristic Power Electronics Dominated Grid – Opportunities and Challenges <b>Professor Haitham Abu-Rub</b> Grid Center – Extension in Qatar, Electrical and Computer Engineering Department Texas A&M University at Qatar <b>Chairs: Prof Saad Mekhilef, Prof Faouzi Derbel</b> <a href="https://meet.google.com/ziu-snrs-hkq">https://meet.google.com/ziu-snrs-hkq</a>
10 h 45 – 11 h 15	Coffee break
11 h 15 – 12 h 15	<b>Plenary Session 2</b> <b>Energy Storage System for Sustainable Grid</b> <b>Professor Saad Mekhilef</b> School of Science, Computing and Engineering Technologies, Swinburne University of Technology, Australia <b>Chairs: Prof Saïd Drid , Prof Brahim Mezghani</b>
12 h 15– 13 h 15	<b>Plenary Session 3</b> Energy Transition for Net Zero-The Role of Renewable Energy and Electric Vehicles <b>Professor Atif Iqbal</b> Qatar University <b>Chairs : Prof ilhami COLAK, Prof Lakhdar Mokrani</b>
13 h 15 – 14h20	Lunch





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	Session 1 (Room 10)	Session 2 (Room 11)	Session 3 (Room 12)
<b>Chairs</b>	<b>Pr A. Kaabeche, Dr B. M'hamdi</b>	<b>Pr Amar Benaissa, Dr Irene Samy Fahim</b>	<b>Pr Yahia Bakelli, Dr Lakhdar Mazouz</b>
<b>14h30- 14h45</b>	<b>ID. 25</b> Abdesattar Mazouzi, Ahmed Hafaifa, Abdellah Kouzou, Design of fuzzy logic based energy management system for fuel cell/battery hybrid electric vehicle	<b>ID. 135</b> Ali Mazari, Kouider Laroussi, Amar Maafa, Hamou Ait Abbas, Billel Nacéri, Power control of cascaded doubly fed induction generator integrated into wind power generation system using sliding mode control	<b>ID. 139</b> Okba Fergani, Raihane Mechgoug, Nacira Tkouti, Kouider Laroussi, Ahmed Bouzid, Younes Belhadjer, MPPT Based artificial neural network employing FOPI to harvest the maximum power from a PV System under changing irradiance of the city Ain El Ibel, Djelfa
<b>14h45- 15h00</b>	<b>ID. 26</b> Nedjma Abdelhafidi, Nour El-Islam Bachari, Zohra Abdelhafidi, Stochastic generation of solar radiation using sunshine duration in Algeria	<b>ID. 138</b> Abdelkarim Ammar, Abdelmoumin Teniba, Sohaib Nouicer, Oussama Belaroussi, Bidirectional power flow PMSM Based-PV Water pumping system with single-phase utility grid	<b>ID. 154</b> Imad Koussa, Mohammed Benzoubir, Atallah Benalia, Control of standalone cascaded H-Bridge eleven-level inverter based on twisting sliding mode algorithm
<b>15h00 - 15h15</b>	<b>ID. 34</b> Gahgouhi Soufiane, Gahgouhi Otmame, Hadjaissa Aboubakeur, Bendjedia Bachir, Kious Mechri, Energy management of a Stand-Alone hybrid PV-Fuel Cell–Battery power system	<b>ID. 160</b> Abdelkarim Ammar, Oussama Belaroussi, Kalinin Vyaslav Fedorovich, Improved adaptive neuro fuzzy based MPPT Approaches in PV Pumping systems	<b>ID. 162</b> Abderrahim Sakouchi, Elhadj Bounada, Abdelkader Djahbar, Direct power control based on second order sliding mode controller of a five-phase PMSG Wind turbine
<b>15h15 - 15h30</b>	<b>ID. 54</b> Sofiane Mihoub, Hani Beltagy, Karim Kaci, Design of linear Fresnel solar thermal power plants in Algeria: A Comparison between DSG and molten salt mode	<b>ID. 199</b> Laaouad Mohamed, Guergazi Aicha, Arduino Mega based fuzzy logic controller for photovoltaic systems	<b>ID. 208</b> Younes Belhadjer, Khaled Mouheb, Billel Nacéri, Hamou Ait Abbas, Kouider Laroussi, Enhancing electric vehicle efficiency and stability with fuzzy logic control





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	Session 4 (Room 10)	Session 5 (Room 11)	Session 6 (Room 12)
<b>Chairs</b>	<b>Pr Hafedh Trabelsi, Dr Belgacem Toual</b>	<b>Pr Tahar Bahi, Pr Brahim Elkhalil Hachi</b>	<b>Pr Abdelhalim Kessal, Dr Mohamed Boudhiaf</b>
<b>15h30 - 15h45</b>	<b>ID. 237</b> Sherifa Elhady, Rana Adel Ibrahim, Tasneem Ibrahim, Hatice Inan, Mona Azouz, Irene Samy Fahim, Utilization cotton stalks as a raw material for wooden products	<b>ID. 105</b> Ayoub Belhamiti, Tahar Seghier, Kouider Laroussi, Mohamed Belkheiri, Boubakeur Zegnini, Fault identification in wind turbine blade steering systems using artificial intelligence	<b>ID. 239</b> Fahem Moussaoui, Marzouk Cherrared, Energy performance assessment of residential buildings using fuzzy approach and AHP method: Case study in the Algerian context
<b>15h45- 16h00</b>	<b>ID. 245</b> Dina El kayaly, Tawfik Ismail, Sherifa Elhady, Irene Samy Fahim Gabriel, Nahla Hazem, AI and big data for the management of COVID-19	<b>ID. 118</b> Abdelfetah Ouadah, Leila Zemouchi-Ghomari, Abdelhamid Iratni, Ahmed Hafaifa, Dysfunctional analysis of electric vehicles using the K-Nearest Neighbors technique	<b>ID. 230</b> Drici Manel, Houabes Mourad, Bahri Mebarek, Optimal design and techno-economic analysis of a stand alone multisource hybrid renewable energy system
<b>16h00- 16h15</b>	<b>ID. 207</b> C. Ait Hammouda, R. Bradai, A. Kherbachi, A. Bendib R. Boukenoui, K. Kara, ESOGI-Based virtual impedance control scheme with performance improvement for droop-operated 3Ph VSIs in islanded AC Microgrid	<b>ID. 51</b> Samir Meradi, Amar Benaissa, Khelifa Benmansour, Said Barkat, Mohamed Tadjine, Mohamed Seghir Boucherit, Fault-tolerant five-level DC-DC Chopper with adaptive learning observer for PV Systems	<b>ID. 98</b> Rafika Boudries, Nourdine Kabouche, Brahim Laoun, Rakfik Medjebour, Abdellah Khellaf, Potential of Power-to-Gas process using CO2 captured from the Algerian extracted natural gas
<b>16h15 - 16h30</b>	<b>ID. 164</b> Abdelhadi Hameurlaine, Larbi Boukezzi, Salah Karef, Haouari Sayah, AC/DC faults protection to evaluate performance and reliability of LCC-HVDC links	<b>ID. 146</b> Khaled Mouheb, Younes Belhadjer, Kouider Laroussi, Abdelhamid Rabhi, Hamou Ait Abbas, Comparative study of no-linear control techniques (fuzzy logic and regulator PI) of the electric vehicle	<b>ID. 246</b> Yara Hossam, Lara Ashraf, Nour Mohamed, Omar Rabea, Yousef Shoula, Sally Kassem, Irene Samy Fahim Gabriel, Waste Management Application using UML
<b>17h00</b>	<b>Coffee break</b>		





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	Session 1 (Hall 1)	Session 2 (Hall 2)	Session 3 (Hall 3)
<b>Chairs</b>	<b>Dr Ziyad Bouchama, Dr Imad Merzouk</b>	<b>Dr Chiker Yasser, Dr Sidali Aissat</b>	<b>Pr Mouloud Guemana, Dr Abdelkader Rouibah</b>
<b>15h 00-16 h00</b>	<b>ID. 53</b> Abdelkrim Khelifa, Meriem Bounib, Intelligential method optimization for improve heat transfer in solar hybrid collector	<b>ID. 109</b> Bettahar Fares, Abdeddaim Sabrina, Betka Achour, Charrouf Omar, Power quality improvement by using photovoltaic based PSO as MPPT with Space vector modulation (SVM) control strategy of Quasi Z-Source inverter	<b>ID. 144</b> Younes Belhadjer, Hamou Ait Abbas, Kouider Laroussi, Okba Fergani, Billel Naceri, Optimizing PV Systems to charge EV Batteries: Comparing modern control techniques
	<b>ID. 56</b> Aicha Aziza Ayad, Abdelkrim Naas, Nouredine Selmi, Aging of absorbent layer of perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> in the local weather of Djelfa region during one year	<b>ID. 120</b> Abdelkrim Khelifa, Lyes Boutina, Yahia Houam, Khaled Touafek, Mohamed Lebbi, Hafsia Haloui, Numerical analysis of the Photovoltaic thermal collector PV/T bi-fluid	<b>ID. 200</b> Saad Khadar, Mohammed Elamine Kobbi, Mohamed Menzou, Asma Senni, Sabah Zakaria, Hamza ahmed, Mover position control of open-end stator winding integrated to wind power system using dSPACE 1103 control board
	<b>ID. 78</b> Assam Benbaha, Fatiha Yettou, Amor Gama, Boubekeur Azoui, Experimental study of a new technique for improving the performance of the parabolic solar cooker	<b>ID. 141</b> Nadir Benalia, Idriss Benlaloui, Kouider Laroussi, Circular coils design for wireless charging of electric vehicle: Analysis and evaluation study	<b>ID. 177</b> Zoubida Amrani, Abdellah Kouzou, Abdelkader Beladel, Comparison of Perturb & Observe and fuzzy logic MPPT Techniques for photovoltaic system
	<b>ID. 81</b> Boughezala hamad haithem, Kouider Laroussi Saad Khadar, Sliding mode control of five phase PMSM fed by Z source inverter: Application to renewable energy	<b>ID. 143</b> Rachad Moumni, Idriss Benlaloui, Kouider Laroussi, Optimization of passive cell balancing technique for electric vehicles	<b>ID. 251</b> Guerrida Laid, Nadji Hadroug, Abdelhamid Iratni, Guemana.Mouloud, Ahmed Hafaifa, Perturb and observation MPPT algorithm for the PV System: A Study of the effect of irradiance variability and temperature value
		<b>ID. 159</b> Faiza Kaddari, Youcef Mihoub, Bilal Rezig, Mohamed Sai, Combined application of PV Array with shunt APF for power quality enhancement	







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<b>Chairs</b>	<b>Pr Achour Betka, Dr Abdelkader Beladel</b>	<b>Pr Kamel Guesmi, Dr Rafik Bradai</b>	<b>Pr Youcef Soufi, Dr Mohamed Azloui</b>
<b>14h30- 14h45</b>	<b>ID. 67</b> Muhammadjon Tursunov, Habibullo Sabirov, Tohir Axtamov, Umirbek Abdiyev, Sirojiddin Toshpulatov, Boysori Yuldoshov, Analysis of parameters of small power photovoltaic and photothermal devices based on crystalline silicon	<b>ID. 11</b> Ghania Boudechiche, Oualid Aissa, Mustapha Sarra, Mustapha Hatti, Salah Belkhiri, Power quality improvement in infected power grid using solar SAPF Based on DPC with disturbance rejection principle	<b>ID. 47</b> Terbah Hocine, Chettih Salih, Advanced algorithm for optimal distribution load flow with the presence of dispersed generations operating in different modes at different load levels. Case study: Overhead and underground networks in the Laghouat region of Algeria
<b>14h45- 15h00</b>	<b>ID. 250</b> Abdul-Wahid A. Saif, UAV Control via energy based sub-optimal control and PID	<b>ID. 65</b> Svetlana N. Voskresenskaya, Eskender A. Bekirov, Osman S. Bekirov, Implementation of methods for forecasting electricity generation in Crimea	<b>ID. 87</b> Reshat Abdurahmanov, Marlen Asanov, Operation of a land-based wind power plant in the "island" mode through compensating its energy consumption by solar panels
<b>15h00 - 15h15</b>	<b>ID. 84</b> Katia Benamara, Hocine Amimeur, Yanis Hamoudi, Control of a dual stator induction generator integrated in a wind power system	<b>ID. 1</b> Fatima Betchine, Samira Benaicha, Slip speed estimator In DFIG Based synergetic MRAS in wind energy conversion system	<b>ID. 170</b> Sabrina Nacef, Rabah Babouri, Bessam Amrouche, Kaci Ghedamsi, Two stage PV-grid connected power generation system based on a VSG control
<b>15h15 - 15h30</b>	<b>ID. 13</b> Abdelkader Achar, Youcef Djeriri, Abderrahim Bentaallah, Salah Hanafi, Sliding mode control of a DFIG Associated with a two-level converter based on the SVM Strategy	<b>ID. 122</b> Elhadj Bounadja, Abdelkadir Belhadj Djilali, Adil Yahdou, Grid voltage drop effects on the control of wind turbine driven a DFIG with accurate model	<b>ID. 148</b> Youcef Sedik Raouche, Toufik Madani Layadi, Mohamed Becherif, Fares Zaoui, Modeling and dynamic simulation of an electric vehicle
<b>15h30 - 15h45</b>	<b>ID. 24</b> Siham Aissani, Mohcene Bechouat, Moussa Sedraoui, Toufik Amieur, Enhanced maximum Power Point Tracking scheme for photovoltaic system using fuzzy logic	<b>ID. 171</b> Rabiaa Houili, Mohamed Yacine Hammoudi, Abdenacer Titaouine, Control design of Takagi-Sugeno fuzzy systems via line integral Lyapunov function	<b>ID. 121</b> Billel Naceri, Kamel Aoues, Hamou Ait Abbas, Kouider Laroussi, Ali Mazari, Said Talbi, Fuzzy logic control of a wind turbine based on backstepping under structured and unstructured constraints





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<b>Chairs</b>	<b>Dr Khodja Djalal Eddine, Dr Elbar Mohamed</b>	<b>Pr Younes Chiba, Dr Ahmed Zohar Djeddi</b>	<b>Pr Abdelhalim Tlemçani, Dr Salah Karef</b>
<b>15h45- 16h00</b>	<b>ID. 215</b> Fatima Boutouta, Abdellah Kouzou , Abdelkader Beladel, Maissa Medkour, Elottri Ahmed, Predictive current control of a grid-Connected photovoltaic voltage source inverter	<b>ID. 137</b> Hamza Benyezza, Mounir Bouhedda, Sofiane Bendamardji and Reda Kara, Fuel delivery truck monitoring and managing platform based on IoT	<b>ID. 38</b> Said Zekraoui, Abdelhafidh Moualdia, Control by fuzzy logic of the dual star asynchronous generator integrated into a wind turbine
<b>16h00- 16h15</b>	<b>ID. 216</b> Mohamed Lamine Benaissa, Abdelkader Beladel, Kouzou Abdellah, Youcef Chouihia, Toufik Mebkhoua, Ben Ouadeh Douara, Design optimization and cost assessment of PV/Wind/Battery/Diesel generator integrated for a microgrid system in Algeria	<b>ID. 149</b> Mohammed Younes, Nabil Kahoul, Djamel Labeled, Belhadj Chekal Affari, Hocine Cheghib, Zoubaida Kherici, Challenges related to the long-term reliability of standard PV panels: case of Algerian desert	<b>ID. 103</b> Moulay Kheireddine, Touati Khaled Omer Mokhtar, Merzouk Imad, Hafaifa Ahmed, Open circuit fault detection and localization in modular multilevel converter
<b>16h15 - 16h30</b>	<b>ID. 218</b> Zahira Bouguerra, Arezki Benfdila, Modelling and simulation of PV/WECs Hybrid system controlled by fuzzy logic control	<b>ID. 220</b> Fatima Boutouta, Abdellah Kouzou, Abdelkader Beladel, Maissa Medkour, Elottri Ahmed, Predictive current control of a grid-connected photovoltaic voltage source inverter	<b>ID. 113</b> Abderrahmane Abdellah, Djilali Toumi, Mhamed Larbi, Housseyn Chaib, Backpropagation neural network-based open circuit fault diagnosis for a Five-Level NPC Inverter
<b>16h30 - 16h45</b>	<b>ID. 242</b> Sassi Rekik, Souheil El Alimi, An Application of multi-criteria decision analysis for selecting sustainable renewable energy technology in Tunisia	<b>ID. 227</b> Chaib Saad, Boukhelkhal Aboubakeur, Study of the rheological properties of self-compacting concrete based on recycled gravel	<b>ID. 116</b> Azeddine Ratni, Ali Damou, Djamel Benazzouz, Hicham Bouregba, Actuator fault detection of wind turbine system using linear parameter-varying
<b>16h45 -17h00</b>	<b>ID. 258</b> Rawia Chakroun, Ramzi Ben Ayed, Nabil Derbel, Comparative analysis of SHE and SHM strategies with damping resistance effect on the design of a one MW PV Substation	<b>ID. 256</b> Khatir Naima, Kezrane Cheikh, Detailed chemistry investigation of usability of compressed natural gas and CNG/H2 Mixture as fuel for energy transition applications	<b>ID. 157</b> Merabet Hichem, Bahi Tahar, Bedoud Khouloud, Drici Djalel, Detection and localization of fault inverter installed in PV System connected to electrical grid
<b>17h00</b>	<b>Coffee break – 1<sup>st</sup> day Wrapping up</b>		





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8 h 30 – 9 h 30	<p><b>Plenary Session 4</b> <b>Electric Vehicles</b> <b>Professor ilhami COLAK</b> İstanbul Nisantasi University, İstanbul, Turkey <b>Chairs : Prof Youcef Soufi, Prof Nabil Derbel</b> <a href="https://meet.google.com/ziu-snrs-hkq">https://meet.google.com/ziu-snrs-hkq</a></p>
09 h 30 – 10 h 30	<p><b>Plenary Session 5 - Visioconference</b> Ultra-high fidelity Digital Real-Time Simulation To Achieving Carbon Neutrality <b>Professor Francisco Gonzalez-Longatt</b> University of Southeast Norway, Department of Electrical engineering, Norway <b>Chairs: Prof Jaroslaw Guzinski, Prof Ahmed Said Nouri</b></p>
10 h 30 – 11 h 00	<b>Coffee break</b>
11 h 00-13 h 00	<p><b>TUTORIAL PART 1 : Dr Krzysztof Blecharz</b> Horizontal Axis Wind Power Plant With The Low-speed Multiphase Doubly-fed Generator <b>TUTORIAL PART 2 : Prof. Jaroslaw Guzinski</b> Control and Applications Multi-phase Machines</p>





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<b>Chairs</b>	<b>Pr Yahia Lasbet, Dr Krzysztof Blecharz</b>	<b>Dr Cheikh Kezrane, Dr Taha Douara</b>	<b>Dr. Ameer Kadouri, Dr Naas Cherrak</b>
<b>11h00 - 11h15</b>	<b>ID. 183</b> Fares Meziane, Mohammed Debbache, Ahmed Bekhti, Ilyes Nouicer, Nourdine Kabouche, Wind resource assessment for energy and hydrogen production on Algeria's Eastern coastline using WASP Software	<b>ID. 235</b> Trodi Fares, Bencherif Karima, Urban agriculture, a potential for sustainable agriculture	<b>ID. 172</b> Elhadj Bounadja, Abdelkadir Belhadj Djilali, Adil Yahdou, Second-order-continuous sliding mode control of a wind turbine driven a DFIG using matrix converter
<b>11h15 - 11h30</b>	<b>ID. 206</b> Abdelhalim Taibi, Kouider Laroussi, Abdelkader Rouibah, Mohamed Amine Hartani, A comparative study between two algorithms for maximum power point tracking Perturb and Observation (P&O) and Sliding Mode Controller	<b>ID. 134</b> Younes Belhadjer, Billel Nacéri, Hamou Ait Abbas, Smail Haroun, Kouider Laroussi, Okba Fergani, Dynamic modeling and control of an S500 UAV Using proportional-integral-derivative (PID) algorithm	<b>ID. 182</b> Belkacem Selma, Elhadj Bounadja, Bachir Belmadani, MATLAB / Simulink modeling and control of two synchronous reluctance generators for a grid connected wind farm
<b>11h30 - 11h45</b>	<b>ID. 58</b> Sofiane Mihoub, Hani Beltagy, Karim Kaci, Techno-economical performance improvement of Algeria Solar Power Plant 1 (SPP1)	<b>ID. 55</b> Aicha Aziza Ayad, Abdelkrim Naas, Khalid Reggab, Walid Serbout, Effect of annealing temperature on stability of methyl ammonium lead iodide CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> structure	<b>ID. 212</b> Ali Bouhedda, Billel Nacéri, Abderrahmane Ahmia, Ali Mazari, Kamel Aoues, Hamou Ait Abbas, Kouider Laroussi, Study of 5 MW grid connected PMSG wind turbine under voltage dip: Case study
<b>11h45 - 12h00</b>	<b>ID. 161</b> Manel Mizat, Bachir Bendjedja, Nassim Rizoug, Influence of battery technologies on UAVs Characteristics	<b>ID. 214</b> Fatima Zohra Batana, Meriam Imane Babaghayou and Abdelhalim Zoukel, Removal of two cationic dyes by adsorption on commercial activated carbon F400	<b>ID. 153</b> Bouziane Maroua, Zarour Laid, Mehazzem Fateh, Bessous Nouredine, Fuzzy logic control of a microgrid connected with the photovoltaic Sys.
<b>12h00 - 12h15</b>	<b>ID. 131</b> Billel Nacéri, Younes Belhadjer, Hamou Ait Abbas, Smail Haroun, Ali Mazari, Khaled Mouheb, Kouider Laroussi, Structural analysis and modeling of X500 Quadcopter frame	<b>ID. 99</b> Maissa Medkour, Kouider Laaroussi, Fahad Shah, Direct power control technique for Grid-tied two levels VSI inverter fed by photovoltaic system	<b>ID. 221</b> Mohammad Abulaila, Kasim M. Al-Aubidy, ANFIS-Based controller for permanent magnet synchronous motor drives







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	Session 4 (Hall 1)	Session 5 (Hall 2)	Session 6 (Hall 3)
<b>Chairs</b>	<b>Dr Amirat Hamza, Dr Mohamed Omran</b>	<b>Dr Abdelkader Beladel, Dr Nadour Mohamed</b>	<b>Dr Djamel Gozim, Dr Ali Teta</b>
<b>12h00 - 12h45</b>	<p><b>ID. 49</b> Abdelmoumene Hechifa, Abdelaziz Lakehal, Lotfi Saidi, Arnaud Nanfak, Ridha Kelaiaia, Mohammed El Amine Senoussaoui, Improvement of transformer fault diagnosis using fuzzy rule and decision tree based on dissolved gas analysis</p> <p><b>ID. 88</b> Hocine Bensaha, Ali Bensaha, Rachid Zegait, Abdelouahab Benseddik, Djemoui Lalmi, Marketing of dried agricultural products: What socio-economic opportunities for the Saharan regions?</p> <p><b>ID. 254</b> Chaima Messelmi, Ahmed Lamine Boukhalkhal, Salah Eddine Hellal, Kais Bougatfa, Yahia Lasbet, Numerical investigation of flat plate solar collector with different cross section</p>	<p><b>ID. 187</b> Salah Bezari, Sidi Mohamed El Amine Bekkouche, Salwa Bouadila, Energy efficiency of a hydroponic greenhouse in the Semi-Arid region</p> <p><b>ID. 89</b> Rachid Zegait, Mohamed Azlaoui, Water quality in Algerian Sahara: Case of Bordj Omar Driss Region</p> <p><b>ID. 151</b> Sohaib Abdeslam Boulanouar, Amar Benaissa; Abdellah Kouzou, Ali Teta, Power quality enhancement of PMSG Wind turbine system connected to SAPF</p>	<p><b>ID. 4</b> Walid Rezig, Rayan Belkacem, Evaluation of the performance of the el Kerma wastewater treatment plant by sizing a basin, at the SEOR level (Oran)</p> <p><b>ID. 77</b> Mohamed Azlaoui, Salah Karef, Rachid Zegait, Nadjib Haied, Atif Foufou, Imed Eddine Nezli, Hydrochemical characterization of groundwater in a semi-arid zone; Algeria</p> <p><b>ID. 253</b> Salah Karef, Mohamed Azlaoui, Abdelhadi Hameurlaine, Mokhtar Fodili, Characterization and evaluation of the treated water quality from the wastewater treatment plant of the Djelfa city</p>





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**Day 02: Sunday, May 07, 2023: Poster Sessions**

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	Session 7 (Hall 1)	Session 8 (Hall 2)
<b>Chairs</b>	<b>Dr Taher Benmessaoud, Dr Salah Karef</b>	<b>Dr Lakhmissi Cherroun, Dr Lazhar Hariche</b>
<b>12h45 - 13h30</b>	<b>ID. 82</b> Mohaned Menzou, Saad Khadar, Mohammed Elamine Kobbj, RT-Lab based real-time simulation of a new solar PV Array powered open-end winding induction motor using a boost DC-DC Converter	<b>ID. 184</b> Saadiya Afeissa, Larbi Boukezzi, Lakhdar Bessissa, Amina Loucif, Abdelhadi Hameurlaine, Ultraviolet radiation aging impact on mechanical properties of Silane-XLPE Cable insulation
	<b>ID. 96</b> Aissa Bellakhdar, Mouhoub Birane, Naceur Selmane, Ali Cheknane, Azeddine Telia, Investigation of photovoltaic characteristics performance of p-InGaN/n-InGaN single junction solar cells using SCAPS-1D	<b>ID. 238</b> Kezrane Mohamed, Rebhi Redha, Guemana Mouloud, Bachene Mourad, 3D Numerical analysis of fluid-substrat interaction during thermal spraying
	<b>ID. 192</b> Messaoud Zelaci, Abdelouahab Benseddik, Lakhdar Aidaoui, Ali Zine, Hocine Bensaha, Djamel Daoud, Modeling of thin layer drying kinetics of whole mint leaves during greenhouse solar dryer and open sun drying	<b>ID. 252</b> Salah Karef, Mohamed Azlaoui, Abdelhadi Hameurlaine, Mokhtar Fodili, Study of the social possibility of the agricultural reuse of sludge and treated water generated by the Medea WWTP
	<b>ID. 255</b> Ali Mansour Lagoun, Mohamed Azlaoui, Environmental effects of aquifer overexploitation: A Case study in the Mitidja of Algeria	<b>ID. 186</b> Mohammed Debbache, Fares Maziane, Ahmed Bekhti, Strategy of design of wind blade for low wind speed Algerian region
	<b>ID. 10</b> Ahmed Lamine Boukhalkhal, Yahia Lasbet, Khaled Loubar, New process of continuous biodiesel production based on chaotic advection: Numerical study	<b>ID. 73</b> Bouchakour Abdelhak, Nouredine Benbaha, Seif Eddine Boukebbous, Hachemi Ammar, Abdelhalim Borni, Amor Fezzani, Layachi Zaghba, Economic comparative study of two water pumping systems using (Photovoltaic, Diesel Group) in a Saharan site





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<b>Chairs</b>	<b>Pr Ahmed Said Nouri, Pr Salim Guettala</b>	<b>Dr Khalil Tamersit, Dr A. Rouini</b>	<b>Dr Nourddine Hanini, Dr Abdelhalim Rabehi</b>
<b>12h00- 12h15</b>	<b>ID.259</b> L.N.H. Pham, R. Wagle, G. Tricarico, A. Kouzou, F. Gonzalez-Longatt Optimum Coordination of Non-directional Overcurrent Protection: CIGRE European Medium Voltage Benchmark Distribution Network	<b>ID. 213</b> Mohamed Seghir Jaballah, Mohamed Saidani, Salaheddine Harzallah, Abbas Cheddad, Chabaat Mohamed, Hybrid vibration control of structures using digital PID and LQR controllers	<b>ID. 133</b> Hamou Ait Abbas, Younes Belhadjer, Billel Naceri, Mohamed Hicham Boularas, Akli Ghalem, Adel Zarifi, Kouider Laroussi, Design of an intelligent speed tracking controller using low-cost Arduino Mega 2560 for a PMDC Motor under real constraints
<b>12h15- 12h30</b>	<b>ID. 75</b> Badreddine Babes, Sami Kahla, Saad Chaouch, Nouredine Hamouda, Amar Boutaghane, Design and Control of Improved Welding Power Source Based Front-End Three-Phase PFC System	<b>ID. 217</b> Yaagoub Karboua, Abdelkader Beladel, Cherif Kellal, An open-end winding three-phase induction machine fed by a voltage source inverter	<b>ID. 169</b> Brioua Fathi, Daoudi Chouib, Mekimah Boualem, Performance improvement of P3HT:PCBM organic solar cells: A Numerical study
<b>12h30 - 12h45</b>	<b>ID. 92</b> O. Ketfi, H. Abdi, R. Brahimi, A. Boudiaf, B. Lounici, Experimental investigation on thermal characteristics of new organic-based natural insulation material	<b>ID. 231</b> Mouna Mahfoud, Abdelhamid Bouhelal, Arezki Smaili, Said Rechak, Yacine Belkacemi, Samir Ouchene, Development of rotor blades based on date palm fibers for wind turbines: A feasibility study	<b>ID. 175</b> Ben Kamri Ahmed Lamine, Ben Messaoud Chikh Lakhdar, Fadla Mohamed Abdelilah, Lefkaier Ibn Kheldoun, Prediction of band gap using composition-based features with ensemble learning
<b>12h45 - 13h00</b>	<b>ID. 97</b> Imad Eddine Tinedert, Achour Saadoune, Salah Okba, Effect of HRT layer and temperature in CdS/CdTe solar cells by using numerical analysis	<b>ID. 224</b> Bachir Zine, Haithem Bia, Mohamed Becherif, Khoudir Marouani, Electrical vehicle realization	<b>ID. 190</b> Ben Messaoud Chikh Lakhdar, Garadi Fatima, Hebboul Zoulikha, Ben Kamri Ahmed Lamine, Lefkaier Ibn Kheldoun, Structural, electronic and magnetic properties of orthorhombic Tm1-xCaxMnO3 Perovskite
<b>13h00 - 13h15</b>	<b>ID. 127</b> Smail Haroun, Younes Belhadjer, Billel Naceri, Hamou Ait Abbas, Ali Mazari, Kouider Laroussi, Structural analysis and modeling of a 3-inch quadcopter frame	<b>ID. 232</b> Yehya Houam, Abdelkader Si Tayeb, Abdelhamid Djari, Abdelkrim Khelifa, Khaled Touafek, Energy management and feasibility analysis of a grid-connected hybrid wind/fuel cell ...	<b>ID. 257</b> Mohammad A.Faraj, Boutheina Maalej, Nabil Derbel, Fractional Order PID Controller For Lower Limb Exoskeleton In Contact Case.





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<b>Chairs</b>	<b>Dr Ameur Kouaddri, Dr Ziyad Bouchama</b>	<b>Pr Salim Guettala, Dr Taybi Hadi</b>	<b>Pr Saïd Drid, Dr Loumbark Dourom</b>
<b>13h15 - 13h30</b>	<b>ID. 104</b> Mohamed Amine Hartani, Ibrahim Bousaid, Aissa Benhamou, Messaoud Hamouda, Othmane Abdelkhalak, Halim Taïbi, Hafsa Bekraoui, Oussama Hafsi, Mohamed Amine Soumeur, Performance analysis of Hybridized energy storage systems using metaheuristic offline tuning approaches	<b>ID. 163</b> Djeblahi Zahia, Mahdad Belkacem, Srairi Kamel, Dandelion optimizer (DO) algorithm for parameters extraction of photovoltaic solar cell	<b>ID. 185</b> Mohamed Amine Khorchef, Parametric study of a solid fluid air conditioning system
<b>13h30 - 13h45</b>	<b>ID. 140</b> R. Behloul, M. Boudiaf, L. Mazouz, F. I. E. Benmohamed, A Robust control power of double fed induction generator using sliding mode controller	<b>ID. 165</b> Kellal Cherif, Mazouz Lakhdar, Kouzou Abdellah, Ouacel Abdelkader, An artificial neural network based on MPPT Using a boost converter for photovoltaic system	<b>ID. 195</b> Ouacel Abdelkader, Abdellah Kouzou, Mhamdi Benalia, Cherif Kellal, A Comparative study GWO and PSO-Based on MPPT Strategy for PV System using buck converter
<b>13h45 - 14h00</b>	<b>ID. 142</b> F. E. Benmohamed, R. Behloul, L. Mazouz, M. Boudiaf, I. I. Bousserhane, Intelligent MPPT Strategy using an artificial neural network for variable-speed wind turbine generation system based on DFIG	<b>ID. 178</b> Feriel Abdelmalek, Hamza Afghoul, Fateh Krim, Djallal Eddine Zabia, Taha Lamdjed Belahcene, Salah Anis Krim, A Shunt active power filter's PI and FO-PI DPC Control comparison	<b>ID. 209</b> Elaid Bouchetob, Bouchra Nadji, Simulink / Simplorer cosimulation to compare efficiency DC-DC Converter based on SiC/Si Devices fed by a PV System
<b>14h00 - 14h15</b>	<b>ID. 150</b> Mohammed Seghir, Abdechafik Hadjadj, Lakhdar Bessissa, Forecasting PV module electrical degradation due to dust using ANNs and PSO techniques	<b>ID. 181</b> Abdelhamid Bouhelal, Arezki Smaili, Mohammed Nadjib Hamlaoui, Feasibility study of producing green hydrogen from wind energy in El-Oued region (Algeria)	<b>ID. 210</b> Hadja Yakoubi, Cheri Aida, Meddad Mounir, Issam Meghlaoui, Damping of vibration in wind turbine blades
<b>14h15 - 14h30</b>	<b>ID. 64</b> Sansabilla Bouchareb, Rachid Tigrine, Application of density function theory and its approximations in the study of structural properties and electronic for AlAs alloy		







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14 h 30 – 13 h 00	Closing Ceremony
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