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## PROGRAM



IEEE GLOBAL ENERGY CONFERENCE 2022  
BATMAN UNIVERSITY, TURKIYE



	OPENING CEREMONY	October 26, 2022 Wednesday	9:30-12:00
Conference Hall, Central Campus	Idris Demir, Chancellor of Batman University	Welcome Speaking	09:30
	Josep M. Guerrero Aalborg University, Department of Energy Technology Denmark	Neuroscience Inspiration for Energy Microgrids	10:00
	Hassan Bevrani, Visiting Prof, Doshisha University, Japan. Smart/micro grids research center, Iran	How Power Converters Shape the Future Grid Dynamics?	10:30
	Qobad Shafiee Smart/Mirco Grids Research Center, Iran	Microgrid Control: Advances and New Perspectives	11:20
	Best Paper Awarded	Will be announced	12:00
	Best Presentation Awarded	28 October,2022 Friday 18:00	

	SESSION I Chair: Hassan Bevrani	October 26, 2022 Wednesday	13:30-15:00
Conference Hall, Central Campus	Multi-node Communication Solution for Synchronous Control of Distributed Power Electronic Devices	Marcin Firla (ABB Sp. z o.o.)*; Wiktor Feliniak (ABB Sp. z o.o.); Bartłomiej Flak (ABB Sp. z o.o.); Daniel Lewandowski (Redivivus Finance); Paweł Rajda (AGH University of Science and Technology); Krzysztof Ziętara (Astronomical Observatory of the Jagiellonian University)	13:30
	PID Controller Design for DFIG-based Wind Turbine via Reptile Search Algorithm	Davut İzci (Batman University)*; Serdar Ekinci (Batman University); Veysel Gider (Batman Üniversitesi); Cafer Budak (Dicle University Faculty of Engineering)	14:00
	Combining Regularization and Dropout Techniques for Deep Convolutional Neural Network	Zari Farhadi (University of Tabriz); Hossein -- Bevrani (University of tabriz)*; Mohammad-Reza Feizi-Derakhshi	14:30

	SESSION II Chair: Qobad Shafiee	October 26, 2022 Wednesday	15:00-16:30
Conference Hall, Central Campus	System Identification and Control of High Voltage Boost Converter	Şehmus Fidan (Batman University)*; Davut Sevim (BATMAN UNIVERSITESI); Emre Erkan (BATMAN UNIVERSITESI)	15:00
	Proportional-Integral Control Analysis of Energy Resource System	Hakan KIZMAZ (BATÜ)*; Sid-Ali Amamra (University of Huddersfield)	15:30
	ANN based prediction of module temperature in a single axis PV system	İsmail Kayri (Batman University)*; Hüseyin Aydın (Batman University)	16:00

	SESSION III Chair: Marcin Firla	October 26, 2022 Wednesday	16:30-18:00
Conference Hall, Central Campus	Artificial Intelligence Based Regression Models for Forecasting of Smart Grid Stability	Abdurrahman GÖNENÇ (Batman University)*; emrullah acar (batman University); Musa Yılmaz (Batman University)	16:30
	The effects of TiO2 nanofluid on efficiency and heat transfer indicators of an inner-plate finned collective cooling in a PV/T hybrid system	Ahmet Aydın (Batman University); İsmail Kayri (Batman University)*; Hüseyin Aydın (Batman University)	17:00
	Daily Solar Radiation Prediction Using LSTM Neural Networks	Veysel Gider (Batman Üniversitesi); Cafer Budak (Dicle University Faculty of Engineering); Davut İzci (Batman University)*; Serdar Ekinci (Batman University)	17:30

	SESSION IV Chair: Hossein Bevrani	October 27, 2022 Thursday	10:30-12:00
Conference Hall, Central Campus	The Electricity Price Prediction of Victoria City Based on Various Regression Algorithms	Sedat Örenc (Batman University)*; emrullah acar (batman University); MEHMET SİRAÇ ÖZERDEM (DİCLE ÜNİVERSİTESİ)	10:30
	Modeling of STATCOM connected system to microgrid	Aysenur Oymak (Batman University)*; Mehmet Rida TUR (Batman Üniversitesi TBMYO Department of Electrical and Energy); Eklas Hossain (Oregon Tech)	11:00
	Parameter Estimation of Solar Cells via Weighted Mean of Vectors Algorithm	Davut İzci (Batman University)*; Serdar Ekinci (Batman University); Süleyman Dal (Batman University); Necmettin Sezgin (Batman University)	11:30

	SESSION: Electric Vehicles Chair: Davut İzci	October 27, 2022 Thursday	9:30-10:45
Virtual Zoom	Detection of surface anomalies on electric motors based on visual deep learning methods	Ali Sami Gozukirmizi (Istanbul Okan Üniversitesi)*	09:30
	Enhancing Capabilities of Wireless Transmission for Electric Vehicle	Sandeep Sunil Ushkewar (SVKM's Institute of Technology, Dhule)*; Nilesh Ahire (Indian Institute of Technology, Bombay); GAURAV PATIL (Medicaps University, Indore)	09:45
	A Practical Byzantine Fault Tolerance Blockchain for Securing Vehicle-to-Grid Energy Trading	Saurav S Sharma (St. Francis institute of technology)*; ADITYA YADAV (St. Francis institute of technology); Omkar N Thite (SFIT); Anish Vedant (St. Francis Institute of technology); Mohd Adil Sheikh (SFIT)	10:00
	Steady-State Analysis of TSBB Converter with Parasitics	Vishwanatha Siddhartha (IIT Roorkee)*; Yogesh Vijay Hote (IIT Roorkee)	10:15
	Honey Badger Algorithm for Adjustment of FOPID Controller Adopted in An Automatic Voltage Regulator System	Özay Can (Recep Tayyip Erdoğan University); Serdar Ekinci (Batman University); Davut İzci (Batman University)*	10:30
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/97497188227?pwd=UUNLR3VqL3Y1Z2F3anpYcU41azE1d009">https://batman-edu-tr.zoom.us/j/97497188227?pwd=UUNLR3VqL3Y1Z2F3anpYcU41azE1d009</a>		

Virtual_Zoom	<b>SESSION: Electric Vehicles Chair: Saurav S Sharma</b>	<b>October 27, 2022 Thursday</b>	<b>13:30-15:00</b>
	A review of potential applications of Tensor Decompositions to Electromagnetics and energy works	Ismail Mohamed (university of bradford)*; Qichun Zhang (University of Bradford); Musa Yilmaz (Batman University); Manjit Singh Sidhu (Universiti Tenaga Nasional)	13:30
	Analysis and Optimization of Fault - Tolerant Behaviour of Motors in Electric Vehicular Systems	Shivani Khare (Bharati Vidyapeeth (Deemed to be University)College of engineering ,Pune); Shubham Singh (Bharati Vidyapeeth (Deemed to be) University, College of Engineering, Pune)*; Siddharth Roy (Bharati Vidyapeeth (Deemed to be University)College of engineering ,Pune); Yogesh Balaso Mandake (Bharati Vidyapeeth (Deemed to be University), College of Engineering Pune); Deepak Bankar (Bharati Vidyapeeth Deemed to be University, College of Engineering Pune)	13:45
	Dual Side Control Design for a 600W LCC Compensated Wireless Power Transfer System	ALI PASHAEI (ISTANBUL RUMELI ÜNİVERSİTESİ)*; EMRULLAH AYDIN (Malatya Turgut Ozal University ); MEHMET TİMUR AYDEMİR (Kadir Has University)	14:00
	Performance Improvement for Interior Permanent Magnet Machines by Winding Reconfiguration	Tayfun Gundogdu (Hakkari University)*	14:15
	A novel day ahead charging scheme for electric vehicles with time of use-based prioritization supported by genetic algorithm	Syed Abdullah-Al- Nahid (Ahsanullah University of Science & Technology)*; Tareq Aziz (Ahsanullah University of Science & Technology)	14:30
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/93762883366?pwd=SlpY2StWTjN4ZjJhN3kxW9M3U5d09">https://batman-edu-tr.zoom.us/j/93762883366?pwd=SlpY2StWTjN4ZjJhN3kxW9M3U5d09</a>		
Virtual_Zoom	<b>SESSION: Energy Measurement and Control Chair: MD Shanian Moed</b>	<b>October 27, 2022 Thursday</b>	<b>15:00-16:30</b>
	A Secure and Intelligent Smart Home Controlling System	Dilshan Abeysiriwardhana W C (Sri Lanka Institute of Information Technology Malabe, Sri Lanka)*; Chamath Hettiarachchi (Sri Lanka Institute of Information Technology Malabe, Sri Lanka); Eshandi Aththanayaka (Sri Lanka Institute of Information Technology Malabe, Sri Lanka)	15:00
	Designing and Evaluating the Performance of a Solar Tracker System in Hot-Arid Region,Bahrain-Case study	Mohamed Aqil (University of bahrain); Isa Mohamed Isa Ali (University of bahrain); Ahmed Hussain Matoq Husain (University of bahrain); Rajamohamed Sumsudeen (University of bahrain)*	15:15
	Transaction and operation control algorithm for an energy bank.	Martial Giraneza (Cape Peninsula University of Technology)*; Khaled M Abo-El-Ez (Cape Peninsula University of Technology)	15:30
	Smart Agriculture Application for Monitoring Environment of Poultry Farm with Energy-Efficiency Measure	S M Masum Ahmed (University of Mons (UMONS))*; Mohammad Zeyad (University of the Basque Country (UPV/EHU)); Jannatul Feadous (Advanced Bioinformatics, Computational Biology and Data Science Laboratory, Bangladesh (ABCD Laboratory, Bangladesh)); Md Sadik Tasrif Anubhove (Advanced Bioinformatics, Computational Biology and Data Science Laboratory, Bangladesh); Eftakhar Hossain (Advanced Bioinformatics, Computational Biology and Data Science Laboratory, Bangladesh (ABCD Laboratory, Bangladesh))	15:45
	Optimization Of Electric Vehicle Charging Stations	Ebru APAYDIN (Batman University)*; Mehmet Rida TÜR (Batman University)	16:00
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/97716153400?pwd=Ymora0FqSkxMNzJlMjVhOjU0STlxZ09">https://batman-edu-tr.zoom.us/j/97716153400?pwd=Ymora0FqSkxMNzJlMjVhOjU0STlxZ09</a>		
Virtual_Zoom	<b>SESSION: Energy Measurement and Control Chair: Rajamohamed Sumsudeen</b>	<b>October 27, 2022 Thursday</b>	<b>16:00-17:30</b>
	An Information Theoretic Unified Global Theory For a Stable M/G/1 Queue With Potential Maximum Entropy Applications to Energy Works	Ismail Mohamed (university of bradford)*; Qichun Zhang (University of Bradford)	16:00
	A consumer-friendly demand side management technique for residential loads supported by two stage Genetic Algorithm-based optimization	MD Shanian Moed (Ahsanullah University of Science & Technology )*; Sazid Mahmud (Ahsanullah University of Science and Technology); Syed Abdullah-Al-Nahid (Ahsanullah University of Science & Technology); Tafsir Ahmed Khan (Ahsanullah University of Science & Technology); Tareq Aziz (Ahsanullah University of Science & Technology)	16:15
	Developing and Designing Grid Sense for Fault Detection in Overhead Electricity Distribution Network	Mutlu BEKTAŞ (Yesilirmak Electricity Distribution Co.)*	16:30
	Optimization of Three Phase Squirrel Cage Induction Motor	tunahan sapmaz (Yıldız Teknik Üniversitesi)*; Harun Etçi (ELK MOTOR ); İbrahim Şenol (Yıldız Teknik Üniversitesi); Yasemin Öner (Yıldız Teknik Üniversitesi)	16:45
	Using Artificial Bee Colony and Dragonfly Algorithms to Improve the Accuracy of Parameter Estimation of Li-FePO4 Battery Cell	Taner Çarkıt (Kırklareli University)*	17:00
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/94809232740636?pwd=TTVleExnWWVjVlhmR2lWbWJlSmFuQT09">https://batman-edu-tr.zoom.us/j/94809232740636?pwd=TTVleExnWWVjVlhmR2lWbWJlSmFuQT09</a>		
Virtual_Zoom	<b>SESSION: Energy Storage and Economy Chair: Ismail Mohamed</b>	<b>October 28, 2022 Friday</b>	<b>9:30-10:30</b>
	Allocation of battery energy storage system (BESS) to mitigate FIDVR in Con Edison of New York	Chang Chen (University of Tennessee)*; Yilu Liu (University of Tennessee); Resk Uosef (Consolidated Edison Company of New York); Matthew Koenig (Consolidated Edison Company of New York); Constantine Spanos (Consolidated Edison Company of New York)	09:30
	The Generalized Brownian Motion Manifold's Fisher Information Matrix With Info-Geometric Applications to Energy Works	Ismail Mohamed (university of bradford)*; Qichun Zhang (University of Bradford); Musa Yilmaz (Batman University); Manjit Singh Sidhu (Universiti Tenaga Nasional)	09:45
	Non-convex Dynamic Economic Emission Dispatch With Ramp Rate Limits Using Heuristic Algorithms	Esra Aydin (Istanbul Technical University)*; Mikail Purlu (Sivas Cumhuriyet University); Belgin Turkay (Unknown)	10:00
	Mobile Battery Energy Storage System for On/Off Grid Applications	Hamidreza NazariPouya (Oklahoma State University)*	10:15
	The Application of HBA Technique to Economic Dispatch: A Case Study From Turkey	Cenk Andic (Istanbul Technical University)*; Esra Aydin (Istanbul Technical University); Ali Öztürk (Düzce Üniversitesi); Belgin Turkay (Unknown)	10:30
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/94732740636?pwd=MitBS25OMHFrkCHQ1SUNYTBtM1F1UT09">https://batman-edu-tr.zoom.us/j/94732740636?pwd=MitBS25OMHFrkCHQ1SUNYTBtM1F1UT09</a>		
Virtual_Zoom	<b>SESSION: Power Systems Chair: Chang Chen</b>	<b>October 28, 2022 Friday</b>	<b>10:45-12:00</b>
	Short-term Load Forecasting using the Combined Method of Wavelet Transform and Neural Networks Tuned by the Gray Wolf Optimization Algorithm	S. Mohammadalı Zanjani (Najafabad Branch, Islamic Azad University); Hossein Shahinzadeh (Amirkabir University of Technology (Tehran Polytechnic))*; Jalal Moradi (Amirkabir University of Technology ); Mohammad-hossein Fayaz-dastgerdi (Najafabad Branch, Islamic Azad University); Wahiba Yaici (CanmetENERGY Research Centre / Natural Resources Canada); Benbouzid Mohamed (Université de Brest, France)	10:45
	A Machine Learning Approach to Transformer Oil Temperature Monitoring Using Load Analysis	Irfan M Sheikh (St.Francis Institute of Technology)*; Anish Vedant (St. Francis Institute of technology ); Mohd Adil Sheikh (SFIT)	11:00
	Hybrid Heuristic and Pattern Search Optimization Algorithm for Design Optimization of Energy Efficient Distribution Transformer	Mohammad Hassan Hashemi (Ege University)*; Ulaş Kılıç (Ege University); Selim Dikmen (Eltas Transformator A.Ş.)	11:15
	A Simple Recursive Least Squares Approach for Off-line Parameter Identification of FOC Permanent Magnet Synchronous Machine Drive	Omer Cihan Kivanc (Istanbul Okan University)*; Ramazan Calik (WAT Motor); Reha Ozgur Simsek (WAT Motor)	11:30
	Analytic representations of finite quantum systems based on SU(2) coherent states in the extended complex plane	AISHA Faraj Mohammed (University of Bradford)*	11:45
Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/99270582996?pwd=UHVLS0JlOHh6WjJlbidBT0tCMmpHZ09">https://batman-edu-tr.zoom.us/j/99270582996?pwd=UHVLS0JlOHh6WjJlbidBT0tCMmpHZ09</a>		



	<b>SESSION: Renewable Energy Chair: Ahmed A Ali</b>	<b>October 28, 2022 Friday</b>	<b>13:30-15:00</b>
Virtual Zoom	Mpmp Control For Pv Systems With Analytical Analysis Fractional Open Circuit Voltage Method	fevzi ç çakmak (mardin artuklu üniversitesi)*	13:30
	Portable Solar-Powered Smart System for Reverse Osmosis Process of Drinkable Rainwater	Kazi Meharajul Kabir (Prairie View A & M University );*; Shuza Binzaid (Prairie View A & M University)	13:45
	Utilization of Renewable Energy Technologies: School Buildings in Baghdad as a Case Study	muntadher Suhail Abed (Ministry of education, Karbala -Iraq)*	14:00
	Energy Management System for PV-DC Generator based Microgrid for Rural Homes	Rajeev Kumar Chauhan (Dayalbagh Educational Institute, Agra)*	14:15
	Photovoltaic Power Plant Flexible Operation for the Provision of Power Reserves and Frequency Response under Uniform and Non-uniform Irradiance	Diana Racines (Technical University Dortmund)*	14:30
	Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/91907196282?pwd=NWk4NTU5SjhMOVpBbk4MjMMD4SndCQT09">https://batman-edu-tr.zoom.us/j/91907196282?pwd=NWk4NTU5SjhMOVpBbk4MjMMD4SndCQT09</a>	

	<b>SESSION: Smart Energy and Communication Chair: Anish Vedant</b>	<b>October 28, 2022 Friday</b>	<b>15:00-16:30</b>
Virtual Zoom	Decimal States Smart Grid Operations Concept : Technical Solution and Benefit for Renewable Energy Integration	Kiswendsida Elias OUEDRAOGO (Izmir economics university)*; Pinar EKIM (Izmir economics university); Erhan Demirok (TESCOM Elektronik)	15:00
	Metasurface-Based Reflective Type V- and W- Band Polarization Converter for Various Microwave Applications	Fatih TUTAR (ATATURK UNIVERSITY)*; Merve KURT (ATATURK UNIVERSITY); Gökhan Öztürk (Atatürk University)	15:15
	Fuzzy Inference and Machine Learning Based HVAC Control System for Smart Buildings	Yunus Emre Isikdemir (Inovasyon Muhendislik)*; Gokhan Erturk (ACD Bilgi Islem); Hande Ates (ACD Bilgi Islem); Muhammed Oguz Tas (Inovasyon Muhendislik)	15:30
	AI Based Palm Print Recognition System for High Security Applications	Ahmed A Ali (University of Johannesburg)*	15:45
	INTERNET OF THINGS TECHNOLOGY AND ITS APPLICATIONS IN TURKEY	Fatma Yaprakdal (Kirklareli University); Onur Aktaş (Kirklareli University)*	16:00
	The Transition Toward Merging Big Data Analytics, IoT, and Artificial Intelligence with Blockchain in Transactive Energy Markets	Hossein Shahinzadeh (Amirkabir University of Technology (Tehran Polytechnic))*; S. Mohammadali Zanjani (Najafabad Branch, Islamic Azad University); Jalal Moradi (Amirkabir University of Technology (Tehran Polytechnic)); Mohammad-hossein Fayaz-dastgerdi (Najafabad Branch, Islamic Azad University); Wahiba Yaici (CanmetENERGY Research Centre / Natural Resources Canada); Benbouzid Mohamed (Université de Brest, France)	16:15
	Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/91504763122?pwd=YUV6WE5pMlgyVVVjZlIQVcyazBMZ09">https://batman-edu-tr.zoom.us/j/91504763122?pwd=YUV6WE5pMlgyVVVjZlIQVcyazBMZ09</a>	

	<b>SESSION: Smart Energy and Communication Chair: Necmettin Sezgin</b>	<b>October 28, 2022 Friday</b>	<b>16:00-17:30</b>
Conference Hall, Central Campus	Advanced Measurement Systems with Smart Grid in Turkey: Roadmap 2032	Tahir Cetin Akinci (University of California Riverside); Alfredo Martinez-Morales (University of California Riverside); Idris Demir (Social Science University of Ankara); Musa Yilmaz (Batman University)*	16:00
	Comparison of Energy Storage Technologies in Smart Grids, Implementation Challenges of Vanadium Technique	Mehmet Necat TUR (Batman University); Omer Faruk ERTUGRUL (Batman University); Mehmet Rida TUR (Batman University)	16:15
	Machine learning-based wind speed time series analysis	Tahir Cetin Akinci (University of California Riverside)*; Oguzhan Topsakal (Florida Polytechnic University); Andrew Wernerbach (Florida Polytechnic University)	16:30
	The Core of a Smart Grid: Internet of Energy and Machine Learning	İdris Demir (Social Sciences University of Ankara); Ömer İleri (Turkish Aeronautical Association University); Ömer Faruk Ertuğrul (Batman University)*	16:45
	Conference Final Speaking	Chancellor of Batman University	17:00
	Zoom Link:	<a href="https://batman-edu-tr.zoom.us/j/92757415736?pwd=VXM5MnI5KlRlWHp4c2FwZUV0NmNOUT09">https://batman-edu-tr.zoom.us/j/92757415736?pwd=VXM5MnI5KlRlWHp4c2FwZUV0NmNOUT09</a>	