6th 2024 International Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE), IEEE

Registration of Participants – February 29, 2024, from 10:30 till 11:00

AUS, University City Sharjah, P.O. 26666, Sharjah, United Arab of Emirates.

Opening program of EMIRATES Venue

(February 29, 2024) (11:00 - 13:15 PM EGY | 13:00 - 15:15 PM UAE)

- Prof. Dr. Ismail Abdel Ghafar, President of AASTMT, Egypt.

- Prof. Dr. Yasser Galal, Dean of College of Engineering and Technology (Heliopolis), AASTMT, Egypt.

- Prof. Dr. Fadi Aloul, Dean of College of Engineering, AUS, Sharjah, Emirates.

- Prof. Dr. Mostafa Shaaban, Interim Head of the Department of Electrical Engineering, AUS, Sharjah, Emirates.

- Prof. Dr. Rania El Sharkawy, Dean of Education (Cairo Campus), AASTMT, Egypt.

- Prof. Dr. Rinat Nasyrov / Dr. Mohamed Tolba General Chairs of the IEEE REEPE conference.

11:15 - 11:45 AM EGY | 13:15 - 13:45 PM UAE

Plenary Speaker: Prof. Dr. Hatem Zeineldin

Professor, Chair of Electrical Engineering Department at Khalifa University

Title: ***Micro-grid Implementation: Challenges and Solutions***

11:45 AM - 12:15 PM EGY | 13:45 - 14:15 PM UAE

Plenary Speaker: Prof. Dr. Mohamed Aboul-Dahab

Professor of Communication Engineering, Advisor to the AASTMT President, Life Senior Member, IEEE.

Title: ***Evolving Technologies in IoT: Future Perspective for the Internet of Things.***

12:15 - 12:45 PM EGY | 2:15 - 2:45 PM UAE

Plenary Speaker: Mr. Amr Kandil

Director, Schneider Electric, Middle East & Africa New Energy Landscape & Real Estate Segment

Title: ***Energy Efficient and Smart Universities of the future***

12:45 - 1:15 PM EGY |2:45 - 3:15 PM UAE

Plenary Speaker: Mr. Sari Issa

Senior Manager Training Development at Hyundai Motor M. East & Africa Headquarter

Title: ***Electric Vehicles: Future and Challenges***

Coffee Break 1:15 - 1:45 PM EGY |3:15 - 3:45 PM UAE

Conference Program (February 29, 2024)

Starting the international participants' presentations (15:45 *UAE*)

{Each Participant has 10 minutes for introducing presentation + 5 minutes Q&A by attendees}

Section-A

1.	**Motion detection method of electrostatic MEMS resonators operating in aqueous media**	*Mohamed Hemid, Basil Alattar, Mehdi Ghommem, Alaaeldin Ahmed, Eihab Abdel-Rahman, Rana Sabouni*
2.	**Demand Side Management Utilizing a Battery Energy Storage System**	*Saif Rashid Al Mansoori, Tariq Mohamed Al Mutawa*
3.	**A Low Power Frequency Synthesizer Design for RF Wireless Power Transfer Applications**	*Maryam Al Suwaidi, Nasir Abdul Quadir, Lutfi Albasha, Hasan Mir*
4.	**Verilog-A Based ANN Large Signal Modeling of GaN HEMTs**	*Md Hasnain Ansari, Anwar Jarndal, Yogesh Singh Chauhan*
5.	**A Fuzzy Logic Based Static VAR Compensator for Wind Farms Voltage Stabilization**	*Subhi Qutob, Ahmad Ghattas, Mostafa Shaaban*

Section-B

1.	**Implementation of a Meander-Line Antenna Array for Microwave Imaging of Human Bones**	*Omar Zaatar, Amer Zakaria, and Nasser Qaddoumi*
2.	**Ultra-Compact Implantable MIMO Antenna for High-Data-Rate Bio-Telemetry Communication**	*Amine Essa, Eqab Almajali, Soliman Mahmoud*
3.	**A Comprehensive Approach for Minimizing Post-Disaster Interruption Costs in Smart Grids**	*Yousef H. Serag, Mostafa F. Shaaban, Mahmoud H. Ismail*
4.	**Enhancement of LFC-AVR combined system by using Fuzzy PID controller**	*Mostafa Farouk Shaaban, Soha Mansour Badawy, Mahmoud AbduALLAH Attia, Ahmed Osman Badr*
5.	**A Novel Hybrid CNN-XGBoost Model for Photovoltaic System Power Forecasting**	*Safia Babikir Bashir, Mena Maurice Farag, Abdul Kadir Hamid, Ali Ahmed Adam, Ahmed Galal Abo-Khalil, A. Elnady, Ramesh Bansal*

Section-C

1.	**A Robust Method for Diagnosis and Localization of Faults in Photovoltaic Panel Strings and Bypass Diodes**	*Said Halwani, Mena Maurice Farag, Abdul-Kadir Hamid, Fahad Faraz Ahmad, Chaouki Ghenai*
2.	**Advancements in Topology and Modulation Techniques for Split Source Inverters: A Comprehensive Overview**	*Ahmed Abdelaleem, Mohamed A. Ismeil, Ahmed Ismail M. Ali, M. Nasrallah, Abdelfatah Ali, Mostafa F. Shabaan, Essam E. M. Mohamed*
3.	**Single-Phase Semi-Z-Source Inverter for PV Applications**	*Mohamed A. Ismeil, Abdelfatah Ali, Mostafa F. Shaaban, and Ahmed Alfouly*
4.	**State of the Art of Hosting Capacity Criteria and limitations for Renewable Energy Sources**	*Ahmed Alfouly, Mohamed A. Ismeil, Abdelfatah Ali, Mostafa F. Shabaan, and I. Hamdan*
5.	**Development of a Seven-Level Inverter with Minimized Switch Count for Grid-Integrated Solar PV Applications**	*Ahmed Ismail M. Ali, Mahmoud S. R. Saeed, Abdelfatah Ali, Mostafa F. Shabaan, Abdel-Raheem Youssef, Essam E. M. Mohamed*
6.	**Electric Vehicles and Grid Dynamics: Navigating Charging Strategies for Enhanced Stability and Sustainability**	*Ahmed Abdelfatah, Mostafa F. Shaaban, Abdelfatah Ali*