

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

Gamal Mokhtar Hall, College of Engineering and Technology, Heliopolis Campus,
AASTMT, Egypt.

Opening Program of EGYPT Venue

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

- Prof. Ismail Abdel Ghaffar, President of AASTMT, Egypt.
- Prof. Yasser Galal, Dean of College of Engineering and Technology (Heliopolis), AASTMT, Egypt.
- Prof. Fadi Aloul, Dean of College of Engineering, AUS, Sharjah, Emirates.
- Prof. Mostafa Shaaban, Interim Head of the Department of Electrical Engineering, AUS, Sharjah, Emirates.
- Prof. Rania El Sharkawy, Dean of Education (Cairo Campus), AASTMT, Egypt.
- Prof. 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. 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.*

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

Plenary Speaker: Prof. Hatem Zeineldin

Professor, Chair of Electrical Engineering Department at Khalifa University

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

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 (13:45 EGY)

{Each Participant has 7 minutes for presentation + 3 minutes Q&A by attendees}

First Session 13:45 – 14:45 EGY

Prof. Gamal Mokhtar Auditorium		
<p>Chaired by:</p> <p style="text-align: center; color: blue;">Prof. Mohamed Aboul-Dahab & Dr. Mohamed Tolba</p>		
1	Technical vs Fundamental Analysis for Egyptian Stock Market Prediction using a Unified Ensemble Regressor	<i>Sherif F. Fahmy, Shereen F. Fahmy, Mohamed W. Fakhr</i>
2	Patch antenna design using DGS technique for early detection of brain tumor at stages I to V	<i>Eman Ismail, Sherif El-Diasty, Mohamed Fathy Abo Sree, Mohamed Aboul-Dahab</i>
3	ChaCha20-AES combined algorithm with 512 bits of security	<i>Amr Mahmoud El Rashidy, Mohamed Hassan Abd El Azim, Ahmed Ali Abd El Hafez</i>
4	Detecting Selected Neurodegenerative Diseases through Microwave Technology: Modeling and Identifying Different Stages of Alzheimer's Disease	<i>Mohamed Abdelaleim Mohamed Abdelmoety, Mohamed Hassan Abdelazim, Mohamed Fathy Abo Sree</i>
5	Detecting different stages of Alzheimer's disease using an ultra-thin wearable antenna	<i>Mohamed Abdelaleim Mohamed Abdelmoety, Mohamed Hassan Abdelazim, Mohamed Fathy Abo Sree</i>

Room 121		
<p>Chaired by:</p> <p style="text-align: center; color: blue;">Prof. Mohamed Walid Fakhr & Prof. Rinat Nasyrov</p>		
1	Smart Emergency Load Supply via Off-Grid Photovoltaic System	<i>Dalal Alharbi, Reem Alshuaib, Ruba Hussain, Taif Alotaibi, Zahrah Alsayegh, Ali M. El-Rifaie</i>
2	A Comparative Study for Designing SAW Gas Sensor Using Different MEMS Piezoelectrical Materials based on COMSOL	<i>Ahmed M. Mohy El Den, Gina Nagui Amin, Yosra Ali, Iman Morsi</i>
3	Optimal Home Energy Management Algorithm Incorporating PVs/Electric Vehicles.	<i>Seif ELNasr Sayed, Rana Maher Mohamed, Amany El-Zonkoly</i>
4	Optimization of Directional Overcurrent Relay Coordination using Metaheuristic Coronavirus Technique	<i>Aya Mounir, Noha H. El-Amary, Hatem Diab, Mahmoud Abdelsalam</i>
5	Sensing voltage of MEMS Accelerometer using Polycrystalline Silicon (Si), Gallium Arsenide (GaAs) and Germanium (Ge)	<i>Amr N. Elsayed, Iman G. Morsi, Roshdy A. Abdelrassoul, Ahmed Khairy Mahmoud</i>

Coffee Break 14:45 - 15:15 PM EGY |

Second Session 15:15 – 16:15 EGY

Prof. Gamal Mokhtar Auditorium

Chaired by:

Prof. Rania El Sharkawy & Dr. Mohamed Tolba

1	Gaze Tracking with Multi-Modal Neural Network in Desktop Environments using Generic Web Camera	<i>Karim Kohel, Mohamed Osama, Nourhan Mohamed, Mohamed Mokhtar, Omar Tamer, Mohamed Waleed Fakhr, Sherif F. Fahmy</i>
2	Frequency Control of Interconnected Power System Using Dandelion Optimization Algorithm	<i>Abdulrahman M. Abushanab, Hany M. Hasanien, R. M. Sharkawy</i>
3	Optimized Transmission Parameters in a Cognitive Radio Network Using Metaheuristic Algorithms	<i>Hassan Mohamed Elkamchouchi, Yasmine Abouelseoud Saleh Metwaly, Gehan Abouelseoud Saleh Metwaly, Alaa Hassan Abd Elatif Ibrahim Mohamed</i>
4	Optimization for Charging Scheduling in Electric Bus System	<i>Sarah Hussein Abdelwahab, Mohammed Alhasheem, R. M. Sharkawy</i>
5	A Three-phase Interleaved AC-DC Converter based Electric-Vehicle Off-Board Battery Charger Station	<i>Bader N. Alajmi, Ibrahim Abdelsalam, Mostafa I. Marei, Nabil A. Ahmed</i>

Room 121

Chaired by:

Prof. Rinat Nasyrov & Prof. Eman Beshr

1	On Dynamic Resource Allocation for D2D Communications over Ultra-Dense 5G Cellular Networks	<i>Fady Anis, Mohamed Hussein, Sherif El Diasty, Mohamed H. Abd Elazeem</i>
2	Achieving Smart Building Operation Sustainability by Utilizing AI Under Environmental Impact.	<i>Mohamed Hamdy Naeem</i>
3	Low Inertia in Ac Microgrid: Analysis and Enhancement	<i>Mazen Emad, Eman Beshr, Mohamed Alhasheem</i>
4	Design of a Solar Pumping System with Battery Storage based on Three-Port DC-DC Converter	<i>Ayman Abu Zaid, Ibrahim Abdelsalam, and Mostafa I. Marei</i>
5	Robust LMI Controller-based Reduced Order Model for Hybrid Microgrids	<i>Hatem F. Sindi, Sultan Alghamdi, Mohammed Morgan, and Ahmed Lasheen</i>