



ICEEIT 2021  
International Conference of Electrical Engineering  
and Information Technology

# ICEEIT 2021 Conference Program

On behalf of the steering and organizing committees, we welcome you to the 2nd International Conference of Electrical Engineering and Information Technology ICEEIT 2021, Benghazi, Libya. This conference is held by University of Benghazi, and it is organized jointly by:

1. University of Benghazi
2. Libyan International Medical University
3. College of Electrical and Electronics Technology – Benghazi
4. The Arab-German Young Academy of Sciences and Humanities (AGYA)
5. Libyan, Authority of Natural Science Research and Technology
6. Tatweer Research.

ICEEIT 2021 is a forum for scientists, engineers, and practitioners to present their latest research, results, ideas, developments, and applications in all areas of Electrical Engineering and Information Technology. The conference program exhibits exciting presentations to contributed papers and state-of-the-art lectures by invited keynote speakers.

## ICEEIT 2021 Tracks

- **Track 1: Power Systems**
- **Track 2: Artificial Intelligence**
- **Track 3: Telecommunication**
- **Track 4: Software Engineering**
- **Track 5: Control Systems**
- **Track 6: Renewable Energy**
- **Track 7: Health Informatics**
- **Track 8: Security & Computer Networks**
- **Track 9: Computer Vision**

<b>Saturday, October 30, 2021</b>	
08:00 - 14:00	Registration @ Main Hall ,Faculty of Science, Universit of Benghazi & online
09:00 - 09:45	Opening and Welcome @ Main Hall and Online
09:45 –10:30	<b>Keynote speaker: Prof. Dr. Oliver Korn</b> Offenburg University of Applied Sciences, Germany & AGYA member <b>Title: Towards the Plateau of Productivity: Social Robotics on the Rise</b>
10:30 –11:15	<b>Keynote speaker: Dr. Mahmoud Abdel-Hafiez</b> Uppsala University-Sweden,Goethe University Frankfurt-Germany, AGYA member <b>Title: Engineering Quantum Materials for Energy Relevant Technology</b>
11:15-11:45	Coffee Break



11:45-13:45		Parallel Sessions		
11:45 - 12:45	Session 1.1 Track 2 Room 2	<b>Power Systems - Chair: Ahmed Tahir, Adel Rafa, Abdelnaser Elbreki</b>		
		11:45-12:00	91	Mohamed Jannat and Aleksandar Savić. Using of Genetic Algorithms (GAs) to find the optimal location and sizing of static VAR compensator (SVC) to minimize real power loss
		12:00-12:15	53	Sara Alsubhi, Kaouther Laabidi and Lobna Hsairi. Comparison of Several Artificial Neural Network Approaches for Fault Classification in Power Transmission Lines
		12:15-12:30	66	Abdulate Elganai. Comparison Study of AC And DC Current Losses in Corona Cage
		12:30-12:45	85	Hasan Alkour, Naima Hamad, Malak El-sherif, Aya El-fakhry, Fatma Ben-zablah, Zainab Mones and Aya Abdsalam. MEMS Accelerometer based condition monitoring and fault detection for Induction Motor
	Session 1.2 Track 2 Room 2	<b>Artificial Intelligence - Chair: Ahmed Lawgali, Wafa Eltarhouni, Mohamed Abdalla</b>		
		11:45-12:00	50	Jumana Eltrabelsi and Ahmed Lawgali. Offline Handwritten Signature Recognition based on Discrete Cosine Transform and Artificial Neural Network
		12:00-12:15	73	Khamis Alarabi Aljribi. Acomparative Analysis of Frequency Bands in EEG Based Emotion Recognition System
		12:15-12:30	49	Abdelfattah Alwarfalli, Fathiyah Yousuf and Ibrahim Ighneiwa. Arabic Sign Language Recognition System by Using Surface Intelligent EMG Signal
		12:30-12:45	97	Mohamed Mami, Ahmed Altriki and Omar Sallabi. Possibilities of Applying the Blended Learning Approach in the Faculty of Information Technology
11:45 - 12:45	Session 1.3 Track 3 Room 3	<b>Telecom. - Chair: Abdelhamid Albaraesi, Farhat Elshaltami, Adel Emhemmed</b>		
		11:45-12:00	38	Abdalnaser Kaeib, Nafaa Shebani, Amer Zerek and Fatima Laassiri. Effect Types of Encoder on Performance Optical Communication Systems at 10 Gb/s SMF link
		12:00-12:15	104	Alaa Alshwehdi, Isra Alamrony, Salma Elkawafi, Abdulrhman Elzwaie, Hana Shamata, Asma Alfergani and Abdelhamid Younis. Location Prediction in Mobile Cellular Networks
		12:15-12:30	68	Khadiga Eltira, Nareeman Alawamy, Salma Elkawafi, Abdelhamid Younis and Raed Mesleh. Cooperative Amplify and Forward Space Modulation MIMO Techniques: Capacity Analysis With Channel Imperfections
		12:30-12:45	67	Khadiga Eltira, Nareeman Alawamy, Abdelhamid Younis, Raed Mesleh and Osamah Badarneh. Cooperative Communications Based Quadrature Space Shift Keying: An Information–Theoretic Approach
12:45 - 13:45	Session 2.1 Track 2 Room 1	<b>Artificial Intelligence - Chairs: Omar Sallabi, Osama BenOmrn, Mussa Omar</b>		
		12:45-13:00	37	Moeid Elsokah, Anas Mejber, Amer Zerek and Hanin Hamdona. Next Generation of Smart Wheelchair with Speech Command
		13:00-13:15	3	Nuha Balkir and Faraj El-Mouadib. Money Laundering Detection System Using Data Mining Functionalitie
		13:15-13:30	108	Amna J. Al-Ojali, Kenz A. Bozed and Wafa Eltarhouni. Develop Graphical Passwords Authentication System Resistant To Shoulder Surfing Attacks
		13:30-13:45	84	Zaha Badi and Lamia Abusedra. Neural Network-based Vocoders in Arabic Speech Synthesi



12:45 - 13:45	Session 2.2 Track 4 Room 2	<b>Software Eng. - Chair: Abdelbaset Elghriani, Osama BenOmran, Rafiq Almaghairbe</b>		
		12:45-13:00	57	Eiman Saleh, Howayda Elmarzaki, Salwa Elakeili and Omar Sallabi. Rule-Based Expert System for Diagnosing Common Childhood Illnesses: Smartphone App to Assist in Curbing the Spread of COVID-19
		13:00-13:15	65	Esra Abdelnabi, Abdelsalam Maatuk and Tawfig Tawill. An Algorithmic Approach for Generating Behavioral UML Models Using Natural Language Processing
		13:15-13:30	94	Ali A. Ben Abdullah, Abdelsalam Maatuk and Osama Bin Omran. Change Propagation Path: An Approach for Detecting Co-Changes Among Software Entities
		13:30-13:45	82	Gumma Alshokry, Mohamed Hagal and Bilal Aljabour. Tracking And Reporting Software Maintenance Requests Challenges In CMMS Systems
12:45 - 13:45	Session 2.3 Track 5 Room 3	<b>Control system - Chair: Ibrahim Ighneiwa, Tawfiq Elmenfy, Nasar Aldian Shashoa</b>		
		12:45-13:00	13	Ahmed Abougarair, Wael Ataeeb, Nasar Aldian Shashoa and Mohamed Edardar. Adaptive Traffic Light Dynamic Control Based on Road Traffic Signal from Google Maps
		13:00-13:15	99	Omer Elbadri, Khalifa Mohamed and Zuhir Saad. Comparison of P&O and PSO Algorithms using MATLAB/Simulink
		13:15-13:30	76	Tawfiq Elmenfy and Mona Mohamed. Robot Arm Control Using Fuzzy Logic Design Integrated With Genetic Algorithm Optimization
		13:30-13:45	39	Mohamed Elmahdi Ali, El-Sharif Abdallah Omer and Eljaroshi Mohamed Diryak. Modeling and simulation and fabrication of resonant pressure sensor with silicon nitride beam.
13:45 - 14:45	<b>Lunch Break</b>			
14:45 - 15:45	<b>Parallel Sessions</b>			
14:45 - 15:45	Session 3.1 Track 6 Room 1	<b>Renewable Energy - Chair: Aiman Noeh, Othman Imrayed, Abdelnaser Elbreki</b>		
		14:45-15:00	32	Mousa Salah Hashash, Hossam Momen Taher, Gamal Hashem, Isam Salem and Nabil Elsharif. Experimental investigation on solar humidification–dehumidification desalination system
		15:00-15:15	28	Maha Abdulhakim, Ahmed Hammada, Mohamed Elrais and Mawia Elgazzar. Simulation and Practical Implementation of PV Solar Energy Conversion System
		15:15-15:30	11	Abdelnaser Elbreki, Faisal Mohamed, Wafa Albsuon and Monaem Elmnifi. Active cooling of PV module performance enhancement using air duct with fans: Indoor Experimental Study
		15:30-15:45	33	Aicha Belgacem, Yahia Miloud, Mohamed Mostefai and Fatima Belgacem. DTC based SMC applied to IM drive in a photovoltaic pumping system
14:45 - 15:45	Session 3.2 Track 7 Room 2	<b>Health informatics - Chair: Salwa Elakeili, Mohamed Hajal, Gamal Bohouta</b>		
		14:45-15:00	30	Samia Abdalhamid, Mariam Elhaddad and Husam Ateer. Measuring Sensitivity of Parameters in Cardiac Cell Model of Human and Animal Heart
		15:00-15:15	14	Abdelbaset Elghriani, Abdelsalam Maatuk, Ebitisam Elberkawi and Tameem El-Turki. Evaluation of the Knowledge of Medical and Health Informatics Students for Bioinformatics and Biomedical Research
		15:15-15:30	21	Eman Alsagheer, Hamzah Rajab and Khadiga Elnajar. Medical Expert System to Diagnose the Most Common Psychiatric Diseases
		15:30-15:45	93	Alla Barakat, Tariq Mohamed and Kenz Bozed. Remote Healthcare Monitoring System using IoT platform





14:45 - 15:45	Session 3.3 Track 8 Room 3	<b>Security &amp; Comp. Net. - Chair: Mohamed Musbah, Younis Younis, Adel Emhemmed</b>		
		14:45-15:00	44	Khaled Gouda and Mohsen Kara. Fabrication and Characterization of Bundle Carbon Nanotubes Transmission Lines for MMIC Applications
		15:00-15:15	22	Salma Naje, Abdulsalam Sami and Younis A Younis. Blockchain and Cryptocurrencies in Libya: a Study
		15:15-15:30	89	Faraj Alhapony, Ahmad Bkkar and Khalil Almogassipi. Study and Simulation for SDN's three layers
		15:30-15:45	83	Fatma Salem. Stochastic Modeling Based Capacity Analysis for Vehicular Networks

<b>Sunday, October 31, 2021</b>				
08:00 - 11:00	<b>Registration @ Main Hall ,Faculty of Science , Universit of Benghazi &amp; online</b>			
9:00 – 10:30	<b>Keynote speaker: Salha Ennajeh</b> DAAD Regional Office Tunis		<b>Title: Study and Research in Germany</b>	
	<b>Guest speaker: Mohammed Alriaydh</b> Lecturer at the University of Benghazi and DAAD Scholar			
10:30 - 11:00	<b>Coffee Break</b>			
11:00 - 13:00	<b>Parallel Sessions</b>			
11:00 - 12:00	Session 1.1 Track 1 Room 1	<b>Power Systems - Chair: Tawfiq Elmenfy, Ahmed Tahir , Aiman Nouh,</b>		
		11:00-11:15	46	Salma Mohammed, Masouda Mohamed and Tahani Abdalmawla. Design and Simulation of Engine Management System
		11:15-11:30	113	Abdel Aziz Mahmoud, Sulayman Ameitiq and Omar Elmabrouk. An Implementation of Fuzzy Logic Technique to Predict Wax Deposition Crude Oil Pipeline
		11:30-11:45	4	Adel Rafa and Hala Agoub. Diesel Generators at the Customers Side as a Microgrid Connected to the Network
		11:45-12:00	26	Abdulrahman Heebah, Aiman Nouh, Mohamed Bara and Omar Mrehel. Experimental Tests for Transformer Insulating Oil Degradation Used in the Libyan Distribution Network
11:00 – 12:00	Session 1.2 Track 3 Room 2	<b>Telecommunication - Chair: Amer Zerek, Zainab Mones, Abdelhamid Albaraesi</b>		
		11:00-11:15	75	Ibtihal Elshami, Mohammed Kablan, Mohammed Altorky, Suliman Elkhabbaz and Ali Elgayar. seasonal rain attenuation using ITU-R prediction model for Libyan climate
		11:15-11:30	7	Ghaith Mansour, Rashad Mahmud, Ekasit Nugoolcharoenlap, Tossapol Tippo and Khurram Alimgeer. Synthesis and Design of Trisection Microstrip Bandpass Filters
		11:30-11:45	111	Aya Abdelgader, ,abdelhamid Younis and Raed Mesleh. Mutual Information and Capacity Analysis of Index Modulated OFDM
		11:45-12:00	17	Adel Emhemmed. Design High Gain Integrated Antenna by Using Micromachining Techniques for 94GHz Applications



11:00 - 12:00	Session 1.3 Track 2 Room 3	<b>Artificial Intelligence - Chairs: Ahmed Lawgali, Wafa Eltarhouni, Mohamed Abdalla</b>		
		11:00-11:15	70	Jalila Abd Alati, Ibrahim Ighneiwa, Omer Elbadri and Zakariya Rajab. Using Neuro-Fuzzy System to Improve Speech Recognition
		11:15-11:30	110	Fathia Altabouni Altabouni, Ashraf Huwedi Huwedi and Kenz Bozed Bozed. Object Detection using Statistical and textual Model
		11:30-11:45	100	Ezz Abdulali, Wafa El-Tarhouni, Amina Abdo and Salma Almajbri. Gender Classification Using Discrete Cosine Transform and multi classifier
		11:45-12:00	23	Tahani Almabruk, Rafiq Almaghairbe, Talal Bukewitin and Marc Roper. Recognition System for Libyan Vehicle License Plate
12:00 - 13:00	Session 2.1 Track 7 Room 1	<b>Health informatics - Chair: Salwa Elakeili, Mohamed Hajal, Mussa Omar</b>		
		12:00-12:20	109	Lamia Abusedra, Hanan Busedra and Mohamed Aljahani. Smart Health Monitoring System Using GSM Technique
		12:20-12:40	16	Huda Kutrani, Saria Eltalhi and Naeima Ashleik. Predicting factors influencing survival of breast cancer patients using logistic regression of machine learning
		12:40-13:00	69	Aya Alaghili, Ibrahim Ighneiwa and Zakariya Rajab. Deep Learning to Improve COVID-19 Detection: Using CNN-Based Transfer Learning from Chest X-Ray Images
12:00 - 13:00	Session 2.2 Track 9 Room 2	<b>Computer Vision - Chair: Ibrahim Ighneiwa, Mohamed Abdalla, Wafa Eltarhouni</b>		
		12:00-12:15	58	Hafsa Abdjalil Mansori, Abdelsalam Maatuk, Omar Sallabi and Essa Gebri. An Efficient Enhanced Algorithm for Clustering Large Datasets
		12:15-12:30	88	Mahmoud Elhejazi and Mohamed Musbah. Dynamic Defense In-Depth Model for SDN Control Layer to Enhance OpenFlow Protocol Security
		12:30-12:45	114	Osama M Ben Omran. Managing Query Processing on Encrypted Database on the Cloud Efficiently
		12:45-13:00	19	Farah Atloba and Nuha Balkir. An Enhanced Version of K-means Algorithm
12:00 - 13:00	Session 1.3 Track 3 Room 3	<b>Telecommunication - Chair: Farhat Elshaltami, Adel Emhemmed, Othman Imrayed</b>		
		12:00-12:15	25	Ayat Al-Olaimat, Raed Mesleh, Omar Hiari and Abdelhamid Younis. Impact of Channel Correlation on the Performance of Acousto Optical Modulator- Free Space Optical System
		12:15-12:30	96	Alzahra Badi, Abdulrhman Elzwaie, Mohamed Baayu, Faraj Aldharrat, Salma Elkawafi, Mohamed Musbah and Raed Mesleh. Detection of Self-installed Mobile Repeaters
		12:30-12:45	15	Nada Alhamdi and Shubat Ahmeda. Mobile WiMAX Network Optimization and Performance Analysis
		12:45-13:00	59	Mohamed Elkuafi, Salwa Almoshity and Abdulsalam Mohammed. comparison between fixed and moving control system algorithms to reduce loss in voice applications through the internet.
13:00 - 14:00	<b>Conference Closing Session</b>			
14:00 - 15:00	<b>Lunch</b>			

# ICEEIT 2021 Keynote Speakers



## Towards the Plateau of Productivity: Social Robotics on the Rise



**Prof. Dr. Oliver Korn**, is a Professor at Offenburg University of Applied Sciences, Germany, and a member of the Arabic German Young Academy (AGYA), specialising in Computer Sciences (Affective computing; Assistive technologies; Gaming and gamification).

His overall vision is to enrich our environments by intuitive interfaces, “intelligent” assistive systems and motivating games, which adapt to the users and the context. He pursues this aim at Offenburg University as a full professor for Human Computer Interaction (HCI), Director of Affective & Cognitive Institute (ACI) and as founder and director of the software company KORION GmbH.

**Email:** [oliver.korn@acm.org](mailto:oliver.korn@acm.org)

## Engineering Quantum Materials For Energy Relevant Technology



**Dr. Mahmoud Abdel-Hafiez**, is an associate professor at Uppsala University, Sweden and Goethe University Frankfurt, Germany, and a member of the Arabic German Young Academy (AGYA). Specialising in physics, material science (solid-state physics; Magnetism and superconductivity).

His research focuses on interdisciplinary directions at the frontier between condensed matter physics and materials science that includes the materials preparation and characterization of quantum materials.

**Email:** [m.abdel.hafiez@physik.uni-frankfurt.de](mailto:m.abdel.hafiez@physik.uni-frankfurt.de)

## Study and Research in Germany



**Salha Ennajeh**, is the Deputy Director of DAAD Regional Office Tunis

In the talk Ms Ennajeh will talk about the higher education system in Germany, different study programmes taught in German and English, how to find the right study programme, financial aspects, all the requirements you need to meet in order to start your career in Germany, how to do a PhD in Germany, and scholarship opportunities.

After the presentation, there will be a “Q&A” session. We have reserved 30 minutes after finishing the presentation to answer all the questions. The session will be conducted in English.

**Email:** [ennajeh@daad.tn](mailto:ennajeh@daad.tn)





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## 4. TPC Members:

The conference organizers wish to thank the many reviewers for their wonderful and necessary service. Their work makes the program successful and we are quite grateful.

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