

# 7<sup>th</sup> International Engineering Conference (IEC-2021)

Erbil, Kurdistan Region-Iraq, February 24-25, 2021



## PROGRAM FLOW

DAY – I (February 24, 2021)

Virtual Conference

Period	Moderator: Ms Naz Kamaran		
08:30 – 10:00	Conference Preparations		
10:00 – 11:00	Opening Ceremony		
11:00 – 11:15	Tea Break		
Webinar Session (Moderator: Assist. Prof. Basil Y. Mustafa)			
11:15 – 11:45	<b>Keynote Speaker:</b> Dr. Hussain Rabia Speech title: “ <i>Preparation of Future Petroleum Engineers</i> ”		
11:45 – 12:15	<b>Keynote Speaker:</b> Prof. Dr. Hamed M. Jassim Speech title: “ <i>Tunelling Practice: Old Haibat Sultan Tunel in Koya, Kudistan Region-Iraq</i> ”		
12:15 – 13:15	Lunch Break		
<b>PARALLEL SESSIONS</b>			
13:15 – 13:35	<b>Computer Engineering &amp; IT Track</b>	<b>Digital &amp; Wireless Communication Track</b>	<b>Civil Engineering Tracks</b>
	<b>SESSION-I</b>	<b>SESSION-II</b>	<b>SESSION-III</b>
	<i>Chair: Dr. Taha Basheer Taha</i>	<i>Chair: Dr. Shahab Kareem</i>	<i>Chair: Dr. Aras JalyZada</i>
	<b>Authors:</b> Rezhna Mirza Abdullah; Saman Abdullah, mamyahia <b>Title:</b> “Component Analysis and Artificial Neural Network for DDoS Attack Detection over IoT Networks”	<b>Authors:</b> Rusul Bader <b>Title:</b> Elliptic Curve Cryptography- Status, Challenges and Future Trends	<b>Authors:</b> Najmadeen Mohammed Saeed and Ahmed Manguri; Serwan Al-Zahawi <b>Title:</b> Optimum Geometry and Stress Control of Deformed Double Layer Dome for Gravity and Lateral Loads
13:40 – 14:00	<b>Authors:</b> Farhad S Dizayee; Dlawar Gharib and Brzo Dizayee <b>Title:</b> Usability Issues of Health Informatics in Developed Countries' eHealth Systems	<b>Authors:</b> Mohammed Zaki Hasan; Hussain Al-Rizzo; Fadi Al-Turjman <b>Title:</b> Performance Evaluation QoS in IoT Applications by Mitigating Hidden Sensor Collision	<b>Authors:</b> Najmadeen Mohammed Saeed and Ahmed Manguri; Barham Haidar Ali <b>Title:</b> Optimal Shape Refurbishment of Distorted Dome Structure with Safeguarding of Member Stress



14:05 – 14:25	<b>Authors:</b> Hasan K Naji <b>Title:</b> Internet of Things and Health Care in Pandemic COVID -19	<b>Authors:</b> Rusul Bader <b>Title:</b> A Proposed Theorems for Mathematical Analysis of ECDLP	<b>Authors:</b> Abdulla Azba and Bayan Salim Alnuman <b>Title:</b> Strength and Electrical Resistivity of Recycled Concrete Made of Aggregates from Waste Bricks
14:30 – 14:50	<b>Authors:</b> Heba AlBermany and Sura Al-Rashid <b>Title:</b> Microarray Gene Expression Data for Classification Alzheimer's Disease Using Deep Learning	<b>Authors:</b> Rusul Bader <b>Title:</b> A Proposed Data Cipher System Based on Discrete Fourier Transform	<b>Authors:</b> Salem Mokhtar Tarhuni <b>Title:</b> Knowledge Management in Historic Buildings Conservation Organizations
14:55 – 15:15	<b>Authors:</b> Basim Abbas Hassan; Auwal Abubakar; Abdulkarim Ibrahim <b>Title:</b> A Modified Conjugate Gradient Method Based on the Taylor Expansion	<b>Authors:</b> Basim Abbas; Ranen Sulaiman <b>Title:</b> Using a New Type Quasi-Newton Equation for Unconstrained Optimization	<b>Authors:</b> Aras Jalal JalyZada <b>Title:</b> Structural analysis of Supports Reactions by Using Building Information Modelling
15:20 – 15:40	<b>Authors:</b> Najdavan Kako and Adnan Brifcani; Haval Sadeeq <b>Title:</b> Effect of Colored Noise on Neuron Membrane Size Using Stochastic Hodgkin-Huxley Equations	<b>Authors:</b> Majid Mahmood; Saad Makki <b>Title:</b> Power Distribution Transformers Monitoring Based on Zigbee and Sensor Technology	<b>Authors:</b> Bafrin Chalabi Zero, sherwany <b>Title:</b> Study of Fundamental Relationships of Traffic Flow for Selected Locations in Erbil City
15:45 – 16:05	<b>Authors:</b> Rusul Bader <b>Title:</b> Development of Solving the ECDLP	<b>Authors:</b> Satar Habib <b>Title:</b> Information and Communication Technology and Renewable Energy Under the Smart Grid Concept	<b>Authors:</b> Wrya Hade Nadir <b>Title:</b> GIS Aided Corridor Approach for Horizontal Highway Alignment Development Using GA
16:10 – 16:30	<b>Authors:</b> Duaa Jabbar <b>Title:</b> Blind Spectrum Sensing Algorithms in CRNs: A Brief Overview	<b>Authors:</b> Ali Othman, Al Janaby and Mohamad A. Ahmed <b>Title:</b> Enhancement of 28 GHz Mm-Wave Bandwidth Using Bowtie Antenna for 5G Cellular Communications	<b>Authors:</b> Dilveen Hassan Omar and Salar Hussein <b>Title:</b> The Relation Between Saturation Flow Rate and Lane Width at Signalized Intersections in Erbil City
<b>Webinar moderator: Assist. Prof. Dr. Ganjeena M. Koshnaw</b>			
20:00-20:30	<b>Keynote Speaker:</b> Prof. Dr. Bekir KARLIK Speech title: "New developments in myoelectric controlled arm prosthesis"		
<b>End of first day</b>			

**DAY – II (February 25, 2020)**  
**Virtual Conference**

Period	Event		
08:30 – 09:30	<b>Conference Preparations</b>		
	<b>Session Moderator: Asst. Prof. Dr. Ganjeena M. Koshnaw</b>		
09:30 – 10:00	<b>Keynote Speaker:</b> Prof. Dr. Merak Salamak Speech title: <i>“BIM methodology as the first step to the digitization of the construction industry”</i>		
	<b>WORKSHOPS/PANELS</b>		
	<b>Webinar Session I (Moderator: Dr. Yasir Hashim)</b>		
10:00 – 11:00	<b>Title:</b> <i>“International workshop on modern computer technology applications”</i> <b>Speakers:</b> Assoc. Prof. Dr. Abdul-Rahman Alsewari, Assistant Prof. Fuad A. Ghaleb, Dr. Goran Abdulrahman		
	<b>Webinar Session II (Moderator: Asst Prof. Salar K. Hussein)</b>	<b>Webinar Session III (Moderator: Dr. Rand Basil)</b>	
10:30 – 11:15	<b>Title:</b> <i>“Drilling problems”</i> <b>Speakers:</b> Soran Mohammed M. Ali	<b>Title:</b> <i>“5G Implementation Challenges in Kurdistan &amp; Iraq”</i> <b>Speakers:</b> Dr. Salar Kheder Shaikhah, & Dr. Jamil A. Hussein	
10:45 – 11:00	Tea Break		
	<b>PARALLEL SESSIONS</b>		
	<b>Computer Engineering &amp; IT Track</b>	<b>General Engineering &amp; Applications</b>	<b>Computer &amp; Civil Engineering</b>
	<b>Session I</b>	<b>Session II</b>	<b>Session III</b>
	<b>Chair: Dr. Sara Raouf</b>	<b>Chair: Prof. Dr. Hamed M. Jassim</b>	<b>Chair: Assoc. Prof. Dr. Thamir Ahmed</b>
11:00 – 11:20	<b>Authors:</b> Taha Basheer Taha; Riyadh Rawahi; Enaam Saeed <b>Title:</b> Efficient Implementation of Smoothing Filters Using FPGA	<b>Authors:</b> Saba Fadhel Ahmed, jaf <b>Title:</b> Study the RCS Effect on Monostatic Radar System Performance	<b>Authors:</b> Lan Yu <b>Title:</b> The Scientific Development of Ecosystem Service Values
11:25 – 11:45	<b>Authors:</b> Shahab Kareem <b>Title:</b> An Evaluation Algorithms for Classifying Leukocytes Images	<b>Authors:</b> Dastan Zrar Ghafoor <b>Title:</b> Performance Parameters of Centrifugal Crude Oil Export Pump	<b>Authors:</b> Boxuan Ma, Changbao Yang, Mengyao Zhu and Xingzhe Li <b>Title:</b> Application of Sentinel-2A Image in Shallow Water Depth Inversion of Lingshui-Sanya Coast
11:50 – 12:10	<b>Authors:</b> Ismael Abdul Sattar; Rafah Alhamdani <b>Title:</b> Design and Implementation Recommender System for Iraqi Terrorist Database Based on Deep Learning	<b>Authors:</b> Frzan Fraidoon Ali; Maha Hamoudi and Akram Abdulwahhab <b>Title:</b> Analyzing the Factors Contributing to Water Coning in Naturally Fractured Reservoirs	<b>Authors:</b> Ismael Abdul Sattar; Rafah Alhamdani <b>Title:</b> Utilizing Latent Features for Building Recommender System Based on RBM

12:15 – 12:35	<b>Authors:</b> Dhiadeen Salih; Ameen Mohammed Selami ; Ahmed Fadhil <b>Title:</b> Thermal Image Features and Noise Effects Analysis	<b>Authors:</b> Ahnirudh Yeshwanth Raj; Akshaya Venkatraman, Anish Vinodh and Hariharan Kumar <b>Title:</b> Autonomous Drone for Smart Monitoring of an Agricultural Field	<b>Authors:</b> Saeed Mohammed Hashim; Dhia Abdullahussein Zubaydi <b>Title:</b> Identify the Presence of Hidden Information Based on Lower Coefficients Value of 2DHWTS Sub-Bands
12:35 – 13:30	<b>Lunch Break</b>		
13:30– 13:50	<b>Authors:</b> Omar Taha; Abdul-Bary Raouf Suleiman <b>Title:</b> Simulation of IoT Web-Based Standard Smart Building Using Packet Tracer	<b>Authors:</b> Yousif AlBany <b>Title:</b> Isolation and Identification of Coliforms in Drinking Water of Duhok Province	<b>Authors:</b> Rusul Bader <b>Title:</b> Genetic Algorithms Used in Cryptanalysis of Cryptosystem
13:55 – 14:15	<b>Authors:</b> Haval Sadeeq; Adnan Brifcani; Diyar Zeebaree ; Dilovan Asaad Zebari ; Najdavan Kako <b>Title:</b> A New Hybrid Method for Global Optimization Based on the Bird Mating Optimizer and the	<b>Authors:</b> R. Sivarethinamohan <b>Title:</b> Envisioning the Potential of Natural Language Processing (NLP) in Health Care Management	<b>Authors:</b> Satar Habib <b>Title:</b> Design and Simulation Networking Operating Model for Virtual Network System
14:20 – 14:40	<b>Authors:</b> Azar Salih; Subhi Zeebaree <b>Title:</b> Role of Artificial Intelligence, Machine Learning and Deep Learning for Cybersecurity Intrusion Detection	<b>Authors:</b> Yousif AlBany <b>Title:</b> Investigation the Role and Expression of TRPC Gene Family on Replication of CoronaVirus	
14:45 – 15:05	<b>Authors:</b> Maan Hameed M <b>Title:</b> Power Reduction Using efficient Way of Tri-state Buffer connection	<b>Authors:</b> Thiara Tri Funny Manguma <b>Title:</b> Vehicle Distance Detection on Autonomous Car Application	
15:10 – 16:00	<b>Closing Ceremony (moderator: Naz Kamaran)</b>		
<b>End of second day</b>			