

8th International Engineering Conference (IEC-2022)

Erbil, Kurdistan Region-Iraq, February 23-24, 2022



PROGRAM FLOW

DAY – I (February 23, 2022)

Erbil International Hotel

Period	Presenter: Naz Kamaran		
08:30 – 10:00	Conference Preparations		
10:00 – 11:00	Opening Ceremony (Hawler Hall) Join by Zoom		
11:00 – 11:20	Tea Break		
Chair: Assist. Prof. Basil Y. Mustafa (Howler Hall) Ground Floor			
11:20 – 11:55	Keynote Speaker: Dr. Firas Aljanabi Speech title: “Water Security and Global Change: Solutions towards Sustainability”		
12:00 – 12:35	Keynote Speaker: Prof. Dr. Subhi Rafeeq Mohammed Zeebaree Speech title: “New Hashing Algorithm and an Authentication Technique to Improve IoT Security”		
12:35 – 13:35	Lunch Break		
13:35 – 13:55	PARALLEL SESSIONS		
	Computer Engineering & IT Track	Digital & Wireless Communication Track	Civil Engineering Tracks
	SESSION-I (Hawler Hall) Ground Floor Join by Zoom	SESSION-II (Shaqlawa Hall) First Floor Join by Zoom	SESSION-III (Safin Hall) Ground Floor Join by Zoom
	Chair: Dr. Sara Raouf Amen	Chair: Dr. Rebin Muhamad Salim	Chair: Assoc. Prof. Dr. Thamir Ahmed
	Authors: Sanabil Mahmood, Marwa Zedan Title: Network Load Balancing in Teleconferencing Systems	Authors: Shayma Wail; Abdulkreem Salih Title: IoT Based WSN - WLAN Coexistence in Medical Applications	Authors: Musab Abdulhamed; Zaid Al-Azzawi; Khalid Najim Title: Strength of Self-Compacting Concrete Produced with Cement Kiln Dust Exposed to Elevated Temperature
13:55– 14:15	Authors: Zhwan Mohammed Khalid, Roojwan Scddeek Hawezi, Sara Raouf Muhamad Amin Title: Urine Sediment Analysis by Using Convolution Nerul Network	Authors: Aws Zuheer Yonis; Ahmed Nawaf Fayad Title: Investigation of Evolving Multiple Access Technologies for 5G Wireless System	Authors: Hameed Saleh Hassan; Abdulkader Ismail Al-Hadithi; Yousif Kh. Yousif Title: Properties of Self-Compacting Lightweight Aggregate (Ponza) Concrete Containing Polyolefin Fibers
14:15 – 14:35	Authors: Baydaa Hassan Husain, Shavan Askar Title: Smart Resource Scheduling Model in Fog Computing	Authors: Zahraa Abbas Hamza, M.; Faeza Abed; Mahmood Mosleh Title: Indoor Positioning System Based on Wi-Fi and Bluetooth Low Energy	Authors: Bushra Rasheed Arjabi and Sabiha Fathil Jawad Title: Seismic Analysis of Torsional Irregularity Attributed to Shear Walls Location in Multi-Story Building

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	SESSION-I (Hawler Hall) Ground Floor Join by Zoom	SESSION-II (Shaqlawah Hall) First Floor Join by Zoom	SESSION-III (Safin Hall) Ground Floor Join by Zoom
14:35 – 14:55	Authors: Hoshang Qasim Awla, Arsalan Rahman Mirza, Shahab Kareem Title: An Automated CAPTCHA for Website Protection Based on User Behavioral Model	Authors: Sara Raed; Yahya Ahmed; Ahmed Darghaath; Sayf A. Majeed Title: Secure Routing Protocol for Wireless Sensor Networks: Survey	Authors: Muhmmad Mahmood Ahmed and Arman Mamazizi Title: Application of a Passive Damper in Steel Shear Wall
14:55 – 15:15	Authors: Omar Muhamad Amin Ali, Shahab Wahhab Kareem , Amin Salih Mohammed Title: Evaluation of Electrocardiogram Signals Classification Using CNN, SVM, and LSTM Algorithm: A Review	Authors: Chnar Mustafa Mohammed; Salar Kheder Shaikhah Title: 5G Network Slicing, E2E Architecture Study and Models Analysis: A Survey	Authors: Arman Mamazizi and Shabaz Shawki Ahmed Title: Seismic Performance of Composite Steel Plate Shear Walls (CSPSW) Containing Two Openings
15:15 – 15:35	Authors: Taha Basheer Taha, Togzhan Nurtayeva, Slvar Abdulazeez Arif, Ahmed Salah Jamal Title: Partial Differential Equations on Digital Image Processing: A Review	Authors: Kurdistan Jaf ; Reben Kurda Title: Impact of Attacks on Performance and Energy Consumption in Wireless Sensor Network	Authors: Aram Mahmood; Javad Katebi; Najmadeen Mohammed; Ahmed Manguri Title: Stress and Geometry Control of Spherical Structures Under Lateral Loadings
15:35 – 15:55	Authors: Hersh Abdurahman Muhamad , Shahab Wahhab Kareem , Amin Salih Mohammed Title: A Comparative Evaluation of Deep Learning Methods in Automated Classification of White Blood Cell Images	Authors: Teeba Ismail and Banar Fareerd Ibrahim Title: A Review: On Performance Quality Aspect Assessment for the IoT Software Applications	Authors: Faraydon H. W. Mahmood, Kamaran Mohammed; ; Elshan Ahani; Bakhtyar Ahmmad Title: Appraising 2D Discrete Macro Element Model of Masonry Infill Wall Using ABAQUS CAE Software
15:55 – 16:15	Authors: Heba Adnan Raheem , Tawfiq A. al-assadi Title: Video Important Shot Detection Based on ORB Algorithm and FLANN Technique	Authors: M. A. Morsy Title: Performance Analysis of Multi-Rate Coherent BPSK-OCMA Network for Multimedia Applications	Authors: Thamir Mohammed Ahmed Title: Impact of Upstream Pressure Coefficient on Vertical Lift Gate of Dam Tunnel
End of the first day			

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DAY – II (February 24, 2022)

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Period	Event		
08:30 – 09:30	Conference Preparations		
09:30 – 10:05	Chair: Asst. Prof. Dr. Ganjeena M. Koshnaw (Ball Hall) First Floor		
	Keynote Speaker: Dr. Amr Ahmed Speech title: “Computing and Digital Technologies in Health” Join by Zoom		
10:05 – 10:50	WORKSHOPS		
	Session I (Chair: Dr. Shahab Wahab Kareem) (Safin Hall) Ground Floor		Session II Chair: Assist. Prof. Salar Khudir Hussein) (Ball Hall) First Floor
	Title: Internet of Things (IoT) and Modern Applications Speakers: Assoc. Prof. Dr. Saman Mirza Abdullah; Assoc. Prof. Dr. Abdulrahman Ahmed Alsewari; Md Arafatur Rahman		Title: “Renewable Energy is Near Future Energy” Speakers: Prof. Govand H. Sherwani, & Assist. Prof. Dr. Ranj Sirwan Abdulla Join by Zoom
10:50 – 11:10	Tea Break (Ball Hall) First Floor		
11:10 – 11:30	PARALLEL SESSIONS		
	Computer Engineering & IT Track	General Engineering & Applications	Geo-technical and Transportation
	Session I (Qandil Hall) Ground Floor Join by Zoom	Session II (Ball Hall) First Floor Join by Zoom	Session III (Safin Hall) Ground Floor Join by Zoom
	Chair: Dr. Taha Basheer	Chair: Dr. Hamed M. Jassim	Chair: Dr. Aras Jalal Abdulkader
	Authors: Alaa Adham Ibrahim , Yara Arjuman Hashim, Truska Mustafa Omer , Rebin M. Ahmed Title: Face Mask Detection System Using Convolutional Neural Network	Authors: Hayder Hassan Abbas Title: An MPPT-based10 KW Solar Power Generator in a Microgrid System for Rural Area	Authors: Bafrin Chalabi Zero, sherwany; Noori Sadeq Ali, Jr Title: Speed - Density Relationships of Urban Road in Erbil City Using Moving Vehicle Method
	Authors: Munsif Ali Jatoi, Sadam Hussain, Muhammad Shaikh, Fayaz Ali Title: Brain Connectivity Analysis for fMRI Data Using CONN Software Package	Authors: Ihab Jabbar Al Rikabi; Mohamed Ali Abuelnuor; Talib Abed and Abdul Hameed Jawad; Adil Omara Title: Investigation of Indoor Air Quality in Several Offices in Baghdad - Case Study	Authors: Bafrin Chalabi Zero, sherwany; Dilveen Hassan Omar; Noori Sadeq Ali; Kamal Yaseen Abdullah Title: Development of Passenger Car Unit (PCU) for Streets in Erbil City
11:30 – 11:50			
11:50 – 12:10	Authors: Wijdan R. Abdulhussein, Nidhal Abass, Abdul Mohssen Abdul Hossen Title: Facial Expression Recognition in the Wild Using Hybrid Deep Neural Network	Authors: Ihab Jabbar; Mohamed Ali; Adil Omara; Najib Ismail and Farid Nasir; Abuelnuor Abuelnuor Title: A Numerical Study of the Effect of Façade Opening on Nighttime Ventilation of a Low-Energy Building	Authors: Yousif Abdallah Title: Internal Stability Assessment of Granular Soils Based on Graphical Method

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	Computer Engineering & IT Track	General Engineering & Applications	Communication & Civil Engineering
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12:10 – 12:30	Authors: Basim A. Hassan, Abdulrahman R. Ayooob Title: On the New Quasi-Newton Equation for Unconstrained Optimization	Authors: Ali Jawad Kadhim; Ameer Hakim, Ameer Al-khaykan; Mohammed Imran; Rami Qays Malik; Suhair Hussein Talib Title: Performance Assessment of Solar System Maximum Power Point Tracking Algorithms	Authors: Salem Mokhtar Tarhuni Title: Accessibility for Disabled People at Peshmerga Park, Erbil, Iraq
12:30 – 13:30	Lunch Break		
13:30 – 13:50	Authors: Ka-Hou Chan, Giovanni Pau, Sio-Kei Im Title: Applying and Optimizing NLP Model with CARU	Authors: Ranj Sirwan Abdullah; Sally Polus Title: Modelling of Solar Flat Plate Collector Assisted Absorption Cooling System: A Case Study	Authors: Talhat Ismael Hassan Title: Proposing Adomian Decomposition Method to Treat Two-Dimensional Inhomogeneous Integral Equation
13:50 – 14:10	Author: Farhad S Dizayee Title: Investigating the Impact of Google Glass Technology Device in Improving Disabled People's Life: A Systematic Literature Review	Authors: Frzan Fraidoon Ali Title: Quantifying the Factors Impacting Production Performance in an Oil Well in Kurdistan Region of Iraq	Authors: Mohamadoun Ndiaye, Adamou moussa Souley; Khalilou Niane; Abdourahmane Raimy Title: Future 6G Communication Networks: Typical IoT Network Topology and Terahertz Frequency Challenges and Research Issues
14:10 – 14:30	Authors: Saman Abdullah mamyahia, Mussa M. Ameen and Rezhna Mirza Abdullah Title: Designing and Implementing of an Online Management Information System for Exam Committee	Authors: Bestoon Taha Title: Morphological Investigation of Liver and Spleen Under the Influence of Static Magnetic Field	Authors: Muhannad Al Jebouri Title: Framework of Sustainable Building Rating System for Hot Arid Region: Methodology Issues
14:30 – 15:20	Closing Ceremony (Ball Hall) First Floor Presenter: Naz Kamaran End of the second day		

Erbil International Hotel

Address: [30 Meter Street, Erbil, Kurdistan Region-Iraq](#)

For Direction (Scan the QR Code)

