

10th International Engineering Conference (IEC-2024)

Erbil, Kurdistan Region-Iraq, October 23-24, 2024



PROGRAM FLOW DAY – I (October 23, 2024) Venue: Dedeman Hotel, Erbil

Period	Presenter:		
08:30 – 10:00	Conference Preparations & Registration		
10:00 – 11:00	Opening Ceremony (Hawler Hall), Second Floor		
11:00 – 11:20	Tea Break, Second Floor, near to Hawler Hall		
	Chair: Assist. Prof. Basil Younus		
11:20 – 11:55	Keynote Speaker: Prof. Dr. Amin Abbosh Speech title: The Evolving Field of Electromagnetic Imaging (EMI) at Microwave and Millimeter-Wave Frequencies for Non-Destructive Testing and Imaging		
12:00 – 12:35	Keynote Speaker: Prof. Dr. Abdelazim M. Negm Speech title: Towards a Competitive Water Industry in the Digital Transformation Era		
12:35 – 13:35	Lunch Break		
	PARALLEL SESSIONS		
	Computer Engineering & IT Track	Digital & Wireless Communication Track	Civil Engineering Track
	SESSION-I (Mihtab Hall)	SESSION-II (Mirhat Hall)	SESSION-III (Hawler Hall)
	Chair: Assist Prof. Dr. Shahab Kareem Chair: Dr. Chiman Haydar	Chair: Dr. Taha Basheer Taha Chair: Assist Prof. Dr. Saman Mirza	Chair: Assist. Prof. Dr. Thamir M. Ahmed Chair: Prof. Dr. Bayan Alnuman
13:35 – 13:55	Authors: Nayla Faiq Othman and Shahab Kareem (1571076968) Title: A Comprehensive Review of AI-Based Classification Approaches for Brain Cancer Detection and Diagnosis	Authors: Bestoon Mustafa, Sardar Yaba and Asaad Hamid Ismail (1571072743) Title: Effects of static magnetic field on whole blood transmittance: In vivo	Authors: Lawrence T. Orjalesa (1571052626) Title: Copper Slag Materials Waste from Philippine Industries for Various Engineering Applications
13:55– 14:15	Authors: Alaa Adham Ibrahim and Polla Fattah (1571077520) Title: Evaluating the Impact of Layer Depth and Data Availability on Multi-Output Deep Learning Models	Authors: Sattar B. Sadkhan (1571072233) Title: Enhance Channel Selection in Cognitive Radio Networks by using Fuzzy approach	Authors: Tariq H. Karim and Kamyar Mutalib Mohammed (1571075326) Title: Some Design Considerations of Runoff Farming in Erbil Plain and Its Peripheral Areas

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14:15 – 14:35	<p>Authors: Islam A. Qader and Tarik A Rashid (1571080110)</p> <p>Title: Kurdish Handwritten Character Recognition System: Review of methods and progress</p>	<p>Authors: Manal Siddiq and Sedki Younis (1571066583)</p> <p>Title: Federated Learning Scheme for Physical Layer Authentication in Industrial IoT Application</p>	<p>Authors: Shayma A (Hamza, Iraq), Hassan M Hassoon and Zubaida Sadon (1571059610)</p> <p>Title: A Study Related to Eco-Friendly Production of Lightweight Concrete by Using Expanded Polystyrene</p>
14:35 – 14:55	<p>Authors: Sattar B. Sadkhan and Qusai AL-Durrah (1571067247)</p> <p>Title: Cyber Warfare Techniques - Status, Challenges and Future trends</p>	<p>Authors: Dawood Salim Mohammed Karam Sameer Qasim, Firas Ahmed and Zozan Hussain (1571075001)</p> <p>Title: Intelligent Battery Management System Using Machine Learning and Dynamic Capacitor Techniques</p>	<p>Authors: Basim Almayyahi, Safaa M. Almudhafar and Israa G. Al-Kafaji (1571072568)</p> <p>Title: Analysis of heavy elements in the Sudair stream water</p>
14:55 – 15:15	<p>Authors: Umed Jader, Shavan Askar, Subhi Rafeeq and Mohammed Saeed (1571073857)</p> <p>Title: Machine and Deep Learning Impact on Energy Consumption Enhancement in IoT Systems</p>	<p>Authors: Ahmed Hamza and Thamer M. Jamel (1571074203)</p> <p>Title: Improve the FBMC-OQAM optical chain utilizing equalizers with M-BPS</p>	<p>Authors: Bafrin Chalabi Zero (1571073292)</p> <p>Title: Improvement Level of Service and Capacity for Shorish Road in Erbil City Using HCS7 and HCM2010</p>
15:15 – 15:35	<p>Authors: Hiba J. Aleqabie, Hba Adnan Raheem, Ali Zahraa Shihab AL Hakeem and Rusul Kadhim (1571074591)</p> <p>Title: A Comparative Analysis of Data Mining Techniques for Fault Detection and Diagnosis</p>	<p>Authors: Ayad Hameed Mousa (1571074589)</p> <p>Title: An Evaluation Model for Measuring the Usability of the Bologna Management System in Iraq (Student, Teacher, and Management Perspective)</p>	<p>Authors: Waleed Ali Hamad and Ganjeena Jalal Khoshnaw (1571075266)</p> <p>Title: Mechanical properties and durability of asphalt-concrete mixture modified with recycled concrete and porcelain aggregates</p>
15:35 – 15:55	<p>Authors: Safwan Malwood Hussein and Abubakar Muhammad Ashir (1571075122)</p> <p>Title: Machine Learning-Driven Intrusion Detection Systems: Reducing False Alarms and Enhancing Accuracy</p>	<p>Authors: Dhilal Reda and Sattar B. Sadkhan (1571076478)</p> <p>Title: Cryptanalysis of RSA Based on Parallel Factorization Method</p>	<p>Authors: Basim Almayyahi, Safaa M. Almudhafar and Hanan H. Jawad (1571071434)</p> <p>Title: The spatial variation of the colon bacteria (Ecoli) in the water of the Mishkab District Center</p>

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15:55 – 16:15	<p>Authors: Kasim M. Al-Aubidy, Izziyyah Mazen Alsudi and Mohammad Rasem Abulaila (1571074754)</p> <p>Title: Deep Learning-Based Control of Sensorless Drives for Robotics and Automation</p>	<p>Authors: Sattar B. Sadkhan and Rusul Bader (1571070625)</p> <p>Title: Cognitive warfare- Statuse, Challenges and Future Trendse</p>	<p>Authors: Sadeq Oleiwi Sulaiman, Abdulhaleem Ali Hammad and Noor Kh. Yashooa (1571071963)</p> <p>Title: One-dimensional model to study the sediment transport of the Euphrates River west of Iraq</p>
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End of the first day

DAY – II (October 24, 2024)

Venue: Tishk International University (TIU)

Period	Event		
08:30 – 09:30	Conference Preparations & Registration		
09:30 – 10:00	Chair: Assist. Prof. Basil Younus, Hall 201 Second Floor		
09:30 – 10:00	<p>Keynote Speaker: Professor Bestoun S. Ahmed Al-Beywane Speech title: Making Business Easier with AI: What You Need to Know</p>		
10:05 – 10:35	<p>Keynote Speaker: Prof. Dr. Eng. Sattar B. Sadkhan Speech title: Cognitive Science and its important Applications in communication and Information Security</p>		
10:35 – 10:50	Tea Break		
10:50 – 11:10	PARALLEL SESSIONS, Second floor		
	Computer Engineering & IT Track	General Engineering & Applications Track	General Engineering & Civil Eng. Track
	Session I (Hall No.207)	Session II (Hall No.202)	Session III (Hall No.201)
	Chair: Dr. Sara Raouf Chair: Dr. Rebeen Mohammed	Chair: Dr. Bestoon Taha Chair: Assist. Prof. Dr. Abdulbasit Talabani	Chair: Assist. Prof. Dr. Aras Jalyzada Chair: Assist Prof. Dr. Khalil H. Younus
10:50 – 11:10	<p>Authors: Mohammad Salim and Mohamed Tahir Shoani (1571068202)</p> <p>Title: Erbil Public Transportation Tracking: An IoT-based Solution for Urban Mobility Enhancement</p>	<p>Authors: Jwan Khaleel Mohammed, Dlair O'baid Ramadan, and Ramadhan Gardi (1571051697)</p> <p>Title: Investigation of Tensile Properties in SiC-Dispersed Friction Welded 6063 Aluminum Alloy Joints</p>	<p>Authors: Thamir Mohammed Ahmed (1571077276)</p> <p>Title: Analyzing the Effects of Slope and Flow Rate on Fluid Dynamics with Cubic Obstacles in Open Channels</p>
11:10 – 11:30	<p>Authors: Mohammed Nazar Hussien, Sr , Omar Shirko Mustafa, and Omar Fouad Mohammed (1571073977)</p>	<p>Authors: Rand Mohammed, Safa A. Albarwary and Sara Youns (1571070098)</p> <p>Title: Physiotherapy Estimation for Disabled Individuals in Erbil City</p>	<p>Authors: Muhammad Usama Bin Maqsood, Muhammad Ammar Ijaz, Abdul Malik and Abdur Rehman Nasir (1571080127) Online</p>



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	Title: Evaluating the performance of MANETs Routing Protocols AODV and DSDV using the NS2 Network Simulator		Title: Extension of Time Claim Management Using Building Information Modeling
11:30– 11:50	Authors: Aicha Znidi, Ahmed Said Nouri and Nabil Derbel (1571075658) Online Title: Robust Fractional Order Sliding Mode Control against Parameter Variations with Application to SCARA Manipulator Robots	Authors: Mohamed Tahir Shoani and Mohammad Salim (1571062432) Title: A Civil Application of Hybrid Linear Actuators in Kurdistan	Authors: Bayan Alnuman (1571076205) Title: Strains in steel reinforcement and CFRP sheets in CFRP- strengthened reinforced concrete beams
11:50 – 12:10	Authors: Sumia Abed Al-obaidi, Sr Mina Zolfy Lighvan and Mohammad AsadpourMustafa Talal Al-naseri, Jr. (1571032484) Online Title: Image Steganalysis Scheme based on Fusion of CNN and BiLSTM	Authors: Aven Hamadamen, and Ismail Murad (1571074212) Title: The apsidal motion and O-C plot of V2815 Orion Algol Binary Stars	Authors: Yosra Ben Fadhel, Achraf Derbel, Hedi Trabelsi, and Nabil Derbel (1571075662) Title: Nanorobots for an Early Detection of Alzheimer's Disease
12:10 – 12:30	Authors: Sozan Sulaiman Maghdid, Shahab Kareem and Salar Jamal Atroschi (1571076967) Title: Deep Learning for the Detection of Skin Cancer: A Comprehensive Review	Authors: Ahmed Thair Shakir, Mustafa Maad Hamdi, Baraa Saad Abdulkakeem, BS, Ahmed Adil Nafea, Jency Rubia J and Sameer Algburi (1571064125) Title: Multicarrier waveforms Modulation In Context Of Vehicular wireless communication Systems Online	Authors: Ibrahim Khdir Ababakir and Asaad Hamid Ismail (1571078218) Title: Radiological assessment of radon and thoron concentration and its radionuclides daughters of the smoke Hookah using RAD-7 and estimation its health risks
12:30-13:30	Lunch Break		
	Computer Engineering & IT Track	General Engineering & Applications	General Engineering & Civil Eng. Track
	Session I (Hall No.207)	Session II (Hall No.202)	Session III (Hall No.201)
	Chair: Dr. Rebeen Mohammed Chair: Dr. Sara Raouf	Chair: Dr. Bestoon Taha Chair: Assist. Prof. Dr. Abdulbasit Talabani	Chair: Assist. Prof. Dr. Aras Jalyzada Chair: Assist Prof. Dr. Khalil H. Younus
13:30 – 13:50	Authors: Wisam A. Qader and Musa M. Ameen (1571074068)	Authors: Idris Hadi Saleh and Mohammad Mustafa Othman (1571078221)	Authors: Abdur Raziq, Bahadar Khan, Tariq Sardar, Ayesha Ijaz, Abid Ullah and Ayad M. F. Al-Quraishi (1571075096) Online

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	Title: Enhancing Classification Performance Through Employing Feature Selection Algorithms	Title: Limiting Field Strength and Electron Transport Coefficients of TMS vapor using Boltzmann Equation Method	Title: Geospatial Monitoring and Mapping of the Batura Glacier in Gilgit-Baltistan, Northern Pakistan
13:50 – 14:10	Authors: Shahab Wahhab Kareem Mahmood and Skala Hassan Hussien (1571074079) Title: A Comprehensive Review of Big Data through Adaptive Sharding and Federated Learning	Authors: Basim Hassan (1571067271) Online Title: New Parameters on the Conjugate Gradient Method Based on the Quadratic Model	Authors: Ibrahim Fatih, Nabaz Ali Abdulrhaman, Omar Azad Khorsheed, Maha Hamoudi, Ahmed Najah ahmed Al Mahfoodh, Abdulfattah Yousif Aldabagh, and Kazhin A Ali (1571077951) Title: Application of the TOPSIS Algorithm in Screening EOR Methods for Iraq Oil Reservoirs
14:10 – 14:30	Authors: Ahmed Hashim Al-Dulaimi, Hala Adnan, Fadel and Maryam Kmaeel Hasan (1571052505) Online Title: Ultimate Arabic News Dataset: A New Efficient Dataset for Arabic Text Classification	Authors: Amal Mstafa and Nejmaddin A. Sulaiman (1571075319) Title: Applying Poureza Transform to Solve Linear Volterra Integro-Differential Equations of the Second Kind	Authors: Thamir Mohammed Ahmed (1571076509) Title: Dynamic Analysis of Pore Water Pressure Variation and Stability in Earth Dams During Rapid and Slow Drawdown (Kassa Earth Dam Case Study)
14:30 – 14:50	Authors: Mohammad J. M. Zedan, Azlan Saleh, Hazimah Haspi Harun and Mohd Asyraf Zulkifley (1571066170) Online Title: Machine Learning Methods in Cyberbully Detection: A Concise Review	Authors: Osman Osman (1571076210) Title: Solving linear fractional programming problems via revised simplex method	Authors: Nabaz Ali Abdulrhaman, Fatima Safaa Hatif and Omran Fadhil (1571078138) Title: Maximizing Oil Well Production in the Buzurgan Oil Field with an Optimized Gas Lift: A Simulation Analysis Utilizing PROSPER
14:50 – 15:10	Authors: Sahbaa Abdulkareem Fathi and Mohammed Jammal (1571066813) Online Title: Cloud Storage Security Based on Blockchain: A Survey	Authors: Mohammed Al-Dabbagh (1571073228) Title: A survey of Students Attendance Management Systems	
15:10 – 15:30	Closing Ceremony (Hall 202) End of the Conference		

- Online Link: <https://us06web.zoom.us/j/82933291064?pwd=K1nP2AOLBMBcBXDT9bK9cd5mbKq8.1>
- Meeting ID: 829 3329 1064
- Passcode: IEC2024

