

11th International Engineering Conference (IEC'26)

Erbil, Kurdistan Region-Iraq, April 29-30, 2026



PROGRAM FLOW

DAY I (April 29, 2026)

Venue: Tishk International University Campus

Period			
08:30 – 10:00	Conference Preparations		
10:00 – 11:00	Opening Ceremony		
11:00 – 11:20	Tea Break		
Keynote Speech Session Chair: Prof. Dr. Hamed Jassim (Ibn Sina Hall – Dentistry Building) Online Session I			
11:20 – 11:50	Keynote Speaker: Dr. Hemin J. Mohammed Speech title: Designing Smarter Infrastructure for Safety, Sustainability, and Resilience		
11:50 – 12:20	Keynote Speaker: Prof. Dr. Ibrahim Ismael Hamarash Speech title: When Systems Speak: Chaos, Complexity, and the Future of Engineering		
12:20 – 13:20	Lunch Break		
PARALLEL SESSIONS			
13:20 – 13:40	ICETSS'26	ICETSS'26	ICACIE'26
	SESSION-I (Main Building – Hall 201) Online Session I	SESSION-II (Main Building – Hall 207) Online Session II	SESSION-III (Main Building – Hall 202) Online Session III
	Chair: Dr. Shahab Kareem	Chair: Dr. Ezideen Hasso	Chair: Dr. Thamir Mohammed Ahmed
	Authors: Towded Ali Alzoubaidy (University of Tikrit, Iraq); Ibrahim Khalil Sileh (Tikrit University, Iraq) [1571232604] Title: Hybrid CNN and Multi-Head Attention for Enhanced Massive MIMO Channel Estimation	Authors: Atheir Faysal Majeed, Sr (Mustansiriyah University, Iraq) [1571261445] Title: Three Phase PV System Grid-Connected System Using Finite Control Set Model Predictive Control	Authors: Dr. Arkhawan Jawhar Sharef (Erbil Technical Engineering Collage, Iraq) [1571260667] Title: A WEAP for Water Scarcity in Erbil: Projecting the Demand-Supply Deficit
13:40 – 14:00	Authors: Ali Al-Sabaawi (Nineveh University & Gifted School, Iraq) [1571234072]	Authors: Kasim Mousa Al-Aubidy (Tishk International University & Director, AI Research Center, Iraq); Mohammed Baniyounis (Philadelphia University Jordan, Jordan); Izziyyah Mazen Alsudi (Al-Balqa	Authors: Yousif Abdallah (Tishk International University, Iraq) [1571259316] Title: Machine Learning-Enhanced Prediction of Delimiting Particle Size of Granular Materials

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	<p>Title: Integrating Exploiting Modification Direct and Improved LSB Methods in Data Hiding Approach*</p>	<p>Applied University, Jordan); Salih Al-Tuhaifi (Arap Open University, Jordan) [1571256682]</p> <p>Title: Design and Performance Analysis of ANFIS-Based and Deep Learning Controllers for Tower Crane Systems</p>	
14:00 – 14:20	<p>Authors: Asmaa Majeed (Al-Nahrain University, Iraq); Alamaldin. K. Majeed (College of Information Engineering, Iraq) [1571237955]</p> <p>Title: A Low Complexity Reflective Unit Cell for Upcoming 6G Communications</p>	<p>Authors: Vijaya Sai Munduru (Individual Researcher, USA) [1571262407]</p> <p>Title: A Unified Object-Field-Record Authorization Engine for SaaS Platforms: Policy Compilation, Caching, and Auditability</p>	<p>Authors: Yousif Abdallah (Tishk International University, Iraq) [1571259323]</p> <p>Title: A Critical Review of Iraqi Building Code No. 302: Foundations and Retaining Walls Code</p>
14:20 – 14:40	<p>Authors: Omar Sh. Ahmad (Northern Technical University, Iraq); Sedki Younis (Ninevah University, Iraq) [1571241341]</p> <p>Title: Lightweight SCNN-GRU Attention for Multi-User Activity Recognition Using CSI with Variational Mode Decomposition</p>	<p>Authors: Sitaram Srivatsavai (Individual Researcher, USA) [1571262723]</p> <p>Title: LLMOps for GxP Systems: Continuous Validation, Model Drift Controls, and Audit-Ready Evidence</p>	<p>Authors: John Bastona (Mapua University, Philippines); Mari Christiana Itoses and Derick Delector (Member, Philippines) [1571231118]</p> <p>Title: Comparative Analysis of the Effectiveness of Expanded Polystyrene (EPS) Blocks and CHB</p>
14:40-15:00	Tea Break		
15:00 – 15:20	<p>Authors: Intisar Kareem AL-Shaeli, Ehab AbdulRazzaq Hussein and Saad S. Hreshee (University of Babylon, Iraq) [1571243717]</p> <p>Title: Performance of Long-Reach IM/DD WDM-PON Systems in C/L-Bands with 50/100 GHz Spacing</p>	<p>Authors: Amer Al-Mazrawe (Amirkabir University of Technology, Iran) [1571259197]</p> <p>Title: Machine Learning and Deep Learning-Based Anomaly Detection In Internet of Things (IoT): A Survey*</p>	<p style="text-align: center;">PANEL SESSION</p> <p style="text-align: center;">Moderators: Dr. Barham Haydar and Dr. Aras Jalal JalyZada</p> <p style="text-align: center;">(New Dentistry Building – Ibn Sina Hall)</p>

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<p>15:20 – 15:40</p>	<p>Authors: Khalid N. Nayef and Bilal Jebur (Ninevah University, Iraq) [1571257823]</p> <p>Title: UAV-Enabled Wireless Communication Systems</p>	<p>Authors: Arsalan Rahman Mirza (Soran University, Iraq); Abdulbasit Al-Talabani (Koya University, Iraq); Hoshang Qasim Awla (Soran University, Iraq) [1571228303]</p> <p>Title: Spoofing Countermeasure for Fake Speech Detection by Using Temporal and Global Representation Features</p>	<p>Title: Sustainability in Construction: Materials, Methods, and Management</p> <p><i>Speaker: Assist. Prof. Dr. Hardi K. Abdullah</i></p> <p><i>Speaker: Dr. Ali Rashid Khoshnaw</i></p> <p><i>Speaker: Mr. Haval. M. Salih, Ph.D. Candidate</i></p>
<p>15:40 – 16:00</p>	<p>Authors: Amjad Hussein Yousif and Saad Wasmi Osman Luhaib (University of Mosul, Iraq); Mohammed Younis Thanoun (University of Mosul, Iraq & Colege of Engineering, Iraq) [1571259387]</p> <p>Title: Multi-Frequency Elliptical Ring Resonator for Systematic Evaluation of Frequency-Dependent Microwave Glucose Sensing</p>	<p>Authors: Ali Al-Sabaawi (Nineveh University & Gifted School, Iraq) [1571233237]</p> <p>Title: Classification of News Articles Using NLP Techniques and Machine Learning Algorithms: Comparative Study</p>	
<p>16:00 – 16:20</p>	<p>Authors: Hassan Hashem (University of Babylon, Iraq); Mohammed Taih Gatte (University of Babylon, Iraq) [1571259436]</p> <p>Title: Design and Simulation of Glucose Microstrip Sensor at Microwave Frequencies</p>	<p>Authors: Saif Faisal Murshed (University of Mosul, Iraq); Naktal Moaid Edan, Al-Lehebee (University of Mosul, Iraq & Naktal, Iraq) [1571259163]</p> <p>Title: Applications of Artificial Intelligence in the Arabic Journalistic Field</p>	
<p>End of the first day</p>			

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DAY – II (April 30, 2026)

Venue: Scientific Research Center / Erbil Polytechnic University / Campus 1 / Kirkuk Road

EPU Location

Period	Event		
08:30 – 09:00	Conference Preparations		
09:00 – 09:30	Keynote Speech Session Chair: Dr. Ranj Abdullah (Hall FF 03)		
9:30 - 10:00	Keynote Speaker: Prof. Dr. Nabil Derbel Speech title: On the Asymptotic Stability of Fractional-Order Controllers with Application to Robotic Rehabilitation Systems.		
9:30 - 10:00	Keynote Speaker: Prof. Dr. Dilshad Kakasor Jaf Speech title: FRP solutions for sustainable strengthening and rehabilitation of Reinforced Concrete Structures		
10:00 – 10:20	Tea Break		
	PARALLEL SESSIONS		
	ICETSS'26	ICETSS'26	ICACIE'26
	Session I - Hall SF 04	Session II - Hall SF 07	Session III – Hall SF 05
	Chair: Dr. Saman Abdullah	Chair: Dr. Chiman Haydar	Chair: Dr. Yousif Abdullah
10:20 – 10:40	<p>Authors: Alaa Ghazi Abdulbaqi (Tishk International University, Erbil, Iraq); Yasir Hashim Naif (A'Sharqiyah University, Oman) [1571233689]</p> <p>Title: Design and Implementation of a General Hardware Binary Exponentiation Circuit Based on Combinational Logic</p>	<p>Authors: Marwa Taresh (University of Mustansiriyah, Iraq); Enas Mohammed Hussien (Al-Mustansiriyah University, Iraq) [1571259204]</p> <p>Title: Comparative Analysis of Feature Selection Methods for Machine-Learning-Based Threat Detection in IoMT Networks</p>	<p>Authors: Zahraa Tiyyar Mustafa and Jamal Ismael Kakrasul (Hariry) (Soran University, Iraq) [1571255938]</p> <p>Title: Assessment of Asphalt Pavement Distress Severity Using Visual Survey: A Case Study of Soran City</p>
10:40 – 11:00	<p>Authors: Sevan Ali (Erbil Polytechnic University, Iraq); Chiman Haydar Salh (Polytechnic University, Information and Communication Technology, Erbil, Iraq) [1571258303]</p> <p>Title: Adaptive Performance Engineering of Low-Power Duobinary Free-Space Optical Links Using a Hybrid OptiSystem-Python</p>	<p>Authors: Rand Mahdi Hamza (University of Babylon, Iraq); George Eskandar Ajam (University of Babylon, Iraq) [1571259222]</p> <p>Title: Preventing Leakage of Network Private Information (NPI) in LLM-Assisted Log Analysis: A Hybrid Regex-NER Pseudonymization Strategy for Unstructured Logs</p>	<p>Authors: Hasan Shahab Mohammed (Soran University, Iraq); Hemin J Mohammed (Trine University, USA) [1571259722]</p> <p>Title: A Survey-Based Bus Headway and Fleet Planning Method for Cities Without AVL/APC Data Channels</p>

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	Framework for Realistic Atmospheric Deployment		
11:00– 11:20	<p>Authors: Omar Abdulaziz Edan (University of Mosul, Iraq); Naktal Moaid Edan, Al-Lehebee (University of Mosul, Iraq & Naktal, Iraq) [1571259481]</p> <p>Title: Drone Surveillance System for Portable Weapon Detection: Survey</p>	<p>Authors: Mahmood Yashar, Omran Nazhat Mohammed, Mohammad Kamal Hussain and Rozh Rebwar Omer (Tishk International University, Iraq) [1571259278]</p> <p>Title: A Real-Time Smart Vision System for Visually Impaired Navigation Using Wearable Image Processing and Deep Learning</p>	<p>Authors: Aras Jalal JalyZada (Erbil Polytechnic University, Iraq); Aram Othman Mahmood (University of Raparin, Iraq) [1571264249]</p> <p>Title: BIM-Based Reinforcement Detailing in Compliance with ACI 318-25</p>
11:20– 11:40	<p>Authors: Aland A. Qader, Muslim Khairi (Tishk International University, Iraq) [1571263875]</p> <p>Title: A Focused Web Crawler for Kurdish Text Collection with Bloom Filter-Based Deduplication</p>	<p>Authors: Sevan Ali (Erbil Polytechnic University,, Iraq) [1571259237]</p> <p>Title: A Machine Learning Assisted Adaptive and Availability Aware Receiver Aperture Framework for Fog-Resilient MIMO Free-Space Optical Communication Systems</p>	<p>Authors: Zainab Naeem Obaid (Thi-Qar University, Iraq); Adnan A. Uгла (University of Thi-Qar, Higher Education and Scientific Research Ministry, Iraq) [1571259425]</p> <p>Title: Effect of Current, Time, and Powder Addition on Nugget Size in Resistance Spot Welding (<i>Online Presentation</i>)</p>
11:40 – 12:00	<p>Authors: Salem Mokhtar Tarhuni (Tishk International University, Iraq) [1571260301]</p> <p>Title: Accessibility for People with Disabilities in Erbil, Iraq: Architects' point of view</p>	<p>Authors: Motasem Alazaiza (A'Sharqiyah University, Oman) [1571227558]</p> <p>Title: Removal Efficiency of Groundwater Contamination Using Partial Sparging through LTV (<i>Online Presentation</i>)</p>	<p>Authors: Saad Shawkat (University of Diyala, Iraq) [1571260245]</p> <p>Title: Assessing the impacts of urbanization and climate variability on land use dynamics using LSTM network (<i>Online Presentation</i>)</p>
12:00 – 12:20	<p>Authors: Youssef Elmezayen (Bahrain Polytechnic, Bahrain); Alaa Mahmoud Mohamed Morsy and Nabil El-Ashkar (Arab Academy for Science, Technology and Maritime Transport, Egypt) [1571246142]</p>		<p>Authors: Zahraa Tiyyar Mustafa and Jamal Ismael Kakrasul (Hariry) (Soran University, Iraq) [1571258370]</p>

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	Title: Proposed Design Equation for One-Way RC Walls with Openings Strengthened Using CFRP (<i>Online Presentation</i>)		Title: Localized Instance-Segmentation-Based Pavement Distress Detection for Urban Roads Using YOLOv8 (<i>Online Presentation</i>)
12:20 – 13:20	Lunch Break		
13:20 – 14:00	Closing Ceremony		
End of the second day			

Join us Online via the following links:

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[IEC 2026 - Online Session II | Join meeting in Teams | Microsoft Teams](#)

[IEC 2026 - Online Session III | Join meeting in Teams | Microsoft Teams](#)