



باسمہ تعالیٰ

ReSIST 2026



Ferdowsi University of Mashhad
F.U.M



Friday Sessions



*The 3rd Regional Symposium
on Innovation in Science and Technology*



JANUARY 2, 2026

Note: The schedule is subject to change. Please check the latest updates on the website or the symposium's Telegram group before attending the presentation hall. https://t.me/+763Z_xVtAe9jMWFk

08:00 – 08:30	Participant Acceptance	-
8:30 – 10:15	Opening Ceremony	Meeting ID: 519 012 6991 , Passcode: K8ijhD

P = In-Person Presentation

V = Virtual Presentation

B = Break time



Hall 1 – Clean & Renewable Energy / Oil & Gas

<https://search.eitaa.com/?url=https://us06web.zoom.us/j/5190126991?pwd=bDa2co6sD3lCOq7kZ7XxKwlrzA3r7h.1>

Session Chairs:

1) Prof. Ramzy Salim Al-Waily

2) Dr. Majid Hosseinpour

TIME IN IRAQ	PAPER ID	TITLE OF PRESENTATION	AUTHORS / PRESENTER	TYPE
10:30–10:45	1061	Hybrid Active Damping and Current Regulation for PV Arrays	Majid Hosseinpour*	P
10:45–11:00	1096	rGO–TiO ₂ Photoanode for Solar Cells	Mohammad Reza Byati*	V
11:00–11:15	1071	Brayton and Inverse Brayton Cycles for Power & Water	Hadi Ghaebi*	P
11:15–11:30	1035	Hierarchical Energy Transactions in Microgrids	Alireza Hatami*	V
11:30–11:45	1043	Effect of Mechanical Cleaning on Solar Panel Performance	M. H. Djavareshkian*	P
11:45–12:00	1072	Role of Renewable Energy in Economic Transformation	Alireza Taherian*	V
12:00–13:00	Praying, Break time and Networking			B
13:00–13:15	1076	Chemical Looping for Oxy-Dehydrogenation of Ethylbenzene to Styrene	Ali Hafizi*	P
13:15–13:30	1119	Multi-Carrier Energy System Optimization Under Uncertainty	Mahdi Banejad*	P
13:30–13:45	1039	Potential Industrial Application of the (HLS) in Fuel Blending	Ali Kariman Moghaddam*	V

Friday



Hall 2 – Veterinary & Medical Sciences

<https://us05web.zoom.us/j/3081117979?pwd=TBgaNWw9xVZhMOYDhspfk5eueDFbpY.1>

Session Chairs: 1) Prof. Adnan Issa Al-Badran 2) Dr. Ahmad Ali Mohammadpour

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
10:30–10:45	1027	Antidiabetic Effect of <i>Ferula assa-foetida</i> Extract in Diabetic Rats	Ebrahim Latifi *	V
10:45–11:00	1085	Betaine Effect on Repair of Sciatic Nerve Injury in Rats	Kosar Javareshkian*	V
11:00–11:15	1008	Integration of Aquaphotomics and ML for Johne's Disease Diagnosis	Saba Behdad*	P
11:15–11:30	1004	Trichoderma and Mycorrhiza Biofertilizers on Maize Growth	M. E. Khooshebast Baghsangani*	V
11:30–11:45	1049	Trichoderma spp. on Rice Growth and Weed Control	Nihad Mutlag*	P
11:45–12:00	1031	DNA Vaccine for <i>Leishmania major</i> Using LeIF/LACK/TSA Genes	Fatemeh Ghaffarifar*	P
12:00–13:00		Praying, Break time and Networking		B
13:00–13:15	1082	Microbial Bioreceptors for Tetracycline Detection – Review	Maryam Besharati*	V
13:15–13:30	1028	Embryological and histomorphometric studies on embryonic development of cerebellum and cerebellar purkinje cells in quail.	Zahra Salari *	V
13:30–13:45	1109	Epigenetics in Livestock and Veterinary Science: Bridging Genetics, Environment, and Health	Zahra Beyranvand*	P

Friday



⌂ Hall 3 – Minerals & Geosciences

<https://us06web.zoom.us/j/3043828170?pwd=4dLltXGeFFewWFeKjtmYYxUydapetN.1>

Session Chairs:

1) Prof. Hussain Musa Al-Shemmary

2) Dr. Khosrow Ebrahimi

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
10:30–10:45	1080	Mapping Serpentinization in Neyriz Ophiolite Using NASA EMIT Data	Iman Ayoobi*	P
10:45–11:00	1099	Enhanced 2D Mode Decomposition for Magnetic Anomalies	Miad Badpa*	V
11:00–11:15	1114	MATLAB Algorithm for Borehole Logs	Miad Badpa*	V
11:15–11:30	1036	Magnesite Ore Calcination Optimization	Khosrow Ebrahimi*	P
11:30–11:45	1125	Mineralogy of Doust Abad Bentonite Deposit	Zahra Alaminia*	P
11:45–12:00	1055	Stratigraphy of Sarcheshmeh Formation in Kopeh Dag Basin	Farzaneh J. Dehghani*	P
12:00–13:00	Praying, Break time and Networking			B
13:00–13:15	1112	Fourier-Domain Magnetic Anomaly Separation (Elbow Detection)	Miad Badpa*	V
13:15–13:30	1150	Geochemical and Mineralogical Indicators for Quantitative Reconstruction of Methane Seepage History in Marine Cold Seeps with Applications to Petroleum Exploration	Seyyede Farveh Mousavi zare*	V
13:30–13:45	1087	Syn-Tectonic Iron Mineralization in Almbolagh Region	Leili Izadi Kian*	P

Friday



Hall 4 – Biotechnology / Microbiology / Nano

<https://us06web.zoom.us/j/5094832450?pwd=6muAwaB2e7LvStk4p3Yrfp6PUsaSel.1>

Session Chairs: 1) Prof. Mohammed Jawad Al-Haidarey 2) Dr. Hassan Borji

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
10:30–10:45	1033	Bioactive Nanofibers for Seafood Preservation	Hassan Borji* et al.	V
10:45–11:00	1074	A Comparison of Recombinant 2B2t+EPC1 and EPC1 Antigens in the Serodiagnosis of Hydatid Disease: Towards Improved Chimeric proteins	Fateme Jalousian*	P
11:00–11:15	1045	Efficacy of Luteolin Against <i>Fusarium spp.</i>	Marjan Soweizy*	V
11:15–11:30	1046	Effect of Luteolin on <i>Fusarium</i> Hyphae (in vitro)	M. Soweizy* et al.	V
11:30–11:45	1014	Methanol Extract of <i>Plantago major</i> Against <i>Alternaria spp.</i>	Ahmed Twayej*	P
11:45–12:00	1019	Interaction of Drugs with MIL-101(Cr)-NH ₂	Areej Mohammad*	V
12:00–13:00		Praying, Break time and Networking		B
13:00–13:15	1091	Gold Nanoparticle Biosensor for Tetracycline Detection	Maryam Besharati*	V
13:15–13:30	1041	Extraction and Purification of Bacteriophage Endolysin against Sulfonamide-Resistant Strains of <i>Escherichia coli</i> : An in-vitro study	Zahra Sabeti noghabi*	V
13:30–13:45	1013	Utilization of Dairy Sludge as an Alternative Medium for Biomass and Exopolysaccharide Production by <i>Enterococcus durans</i> k48 Isolated from Iranian Traditional Kishk	Mohammad Reza Edalatian Dovom*	V

Friday



🚰 Hall 5 – Water & Environmental Sciences / Waste Management

<https://us06web.zoom.us/j/2286134693?pwd=SVftiHFqQlR0OiaLZ7xjRG3wMmxhS.1>

Session Chairs: 1) Prof. Hasan Mahdi Al-Khateeb 2) Prof. Hossein Mohammadzadeh

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
10:30-10:45	1025	Microplastics Pollution in Iran and Persian Gulf Basin	Hossein Mohammadzadeh*	P
10:45-11:00	1093	Innovation in Water Recycling – Economic Perspective	Narges Nejatian Ghoreschi*	V
11:00-11:15	1104	Circular Economy for Water Management in Developing Countries	Fatemeh Ahmadi*	V
11:15-11:30	1077	Corn Yield under Water Stress with Bio and Chemical Fertilizers	Kamal Hajmohammadnia*	V
11:30-11:45	1073	Circular Waste Management During Arbaeen Pilgrimage	Fatemeh Hosseinzadeh*	V
11:45-13:00	Praying, Break time and Networking			B
13:00-13:15	1020	Pollution in Najaf City Due to Private Generators	Zaid AL-Hakkak*	P
13:15-13:30	1058	Manufacturing Thermal & Insulating Materials from Industrial Waste	Zainab H. Al-Salihi*	P
13:30-13:45	1050	Bioaccumulation of Plant-Synthesized Ag Nanoparticles in Organisms	Mithaq Joudeh*	P

Friday



Ferdowsi University of Mashhad
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Saturday Sessions



*The 3rd Regional Symposium
on Innovation in Science and Technology*



JANUARY 3, 2026



Hall 1 – Clean & Renewable Energy / Oil & Gas / AI in Energy Systems

<https://search.eitaa.com/?url=https://us06web.zoom.us/j/5190126991?pwd=bDa2co6sD3lCOq7kZ7XxKwJrzA3r7h.1>

Session Chairs:

1) Dr. Ali Wadi Al-Fatlawi

2) Dr. G. Arab Markadeh

TIME IN IRAQ	PAPER ID	TITLE OF PRESENTATION	PRESENTER	TYPE
08:00-08:15	1078	Economic Impact of Advanced Air Pollution Control Technologies	Sanaz Sane*	V
08:15-08:30	1011	Effect of Climate Change on Agro-Climatic Indices in Iraq	Soroor Khorramdel*	V
08:30-08:45	1115	Transonic Airfoil Optimization Using DNN and Genetic Algorithms	Reza Rahnema*	V
08:45-09:00	1117	Grid-Forming vs Grid-Following Inverters in Renewable Power Grids	G. Arab Markadeh*	P
09:00-09:15	1062	Switched-Capacitor Multilevel Inverter with Voltage Boost & Limited Inrush Current	Meysam Noori*	P
09:15-10:15	Break time & Networking			B
10:15-10:30	1015	From Perception to Action: Integrating AI and Industry 4.0 with BIM Lifecycle	Shima Mohammadbeigi*	V
10:30-10:45	1044	Cloud Resource Allocation Using Algorithm X & Dancing Links	Amirreza Asgharzadeh*	V
10:45-11:00	1103	Fake-News Detection via Text, User History and Propagation Network	Sara B. Hosseinbeygi*	V
11:00-11:15	1101	Resource Disaggregation in Next-Generation Data Centers	Farzad Karami*	V
11:15-11:30	1065	Energy-efficient Phase Change CO ₂ Capture from Flue Gas using Diethylenetriamine	Ali Hafizi*	P
11:30-11:45	1123	AI-Driven Digital Twin for Oil Field Management	Amir K. Torghabeh*	V
11:45-12:00	1060	Effect of annealing, infill density, and infill pattern on compressive strength of PLA-based additively manufactured structures	Reza AleAli*	P
12:00-13:00	Praying, Break time & Networking			B

Saturday



🕒 Hall 2 – Artificial Intelligence / Cyber Security / Engineering

<https://us05web.zoom.us/j/3081117979?pwd=TBgaNWw9xVZhMOYDhspfk5eueDFbpY.1>

Session Chairs:

1) Prof. M.Shariati

2) Prof. Abdul-Sattar Al-Saif

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYP E
08:00–08:15	1054	EEG Channel Selection Optimization for Epileptic Seizure Prediction	Maryam Khansari*	V
08:15–08:30	1118	2.5D CFD Study of Sweep and Dihedral Effects on Wings	Ali Mazaheri*	V
08:30–08:45	1097	Ray-Tracing for Aero-Optic Distortion in Hypersonic Flows	Kamyab Karbasishargh*	V
08:45–09:00	1068	Load Flow in Droop-Controlled Microgrids with Polynomial ZIP Models	Mahdi Banejad *	P
09:00–09:15	1111	Design & Implementation of Stable Stewart Mechanism Platform	Laya Noormonavar*	V
09:15–09:30	1066	Fibonacci Two-Helix Hydrophone Array for Synthetic Sonar	H.Hajirahimi Kashani *	V
09:30–10:15	Break time and Networking			B
10:15–10:30	1009	Detection of Authorized Vessels in SAR Imagery Using SOD Algorithm	S. S. Shamsizadeh*	V
10:30–10:45	1069	Motion Detection & Localization Using HB100 Doppler Sensor	Nahid Shamshiri*	V
10:45–11:00	1051	The feasibility of combined Artificial Intelligence (AI) and nanoscale techniques for improving the quality of turquoise	Saif Alsultani*	P
11:00–11:15	1047	Emerging Technologies and Ontological Challenges: Presenting a Paradigmatic Model Based on Grand Theory	Hashem Ebrahimi Varkiani*	P

Saturday

11:15-11:30	1056	A Schrödinger-Like Equation for Irrotational Flows	Mohammad Amin Hejazi *	V
11:30-11:45	1024	Investigation of Optical Multi-Branching from Nonlinear Media and Comparison Between Second (SHG) and Third Harmonics (THG)	Elahe Pouladkhay*	V
11:45-12:00	1038	Bioleaching of Nickel from Catalysts (AI Assisted)	Mahdokht Arshadi*	P
12:00-13:00	Praying, Break time and Networking			B
13:15-13:30	1017	Experimental CVD Growth of Multi-Walled Carbon Nanotubes Using Fe-Ni Catalysts at 1162 K	Morteza Maghrebi*	P
13:30-13:45	1052	The effectiveness of Iran's air defense against combined attacks in the initial phase of the 12-day war, in comparison with recent conventional conflicts."	Bibi Marzieh Rezvanpanah*	V
13:45-14:00	1032	Design and Simulation of an Optical Spectrometer Based on Nonlinear-Optical Wavelength Separation	Maryam Torkashvand*	V



✂ Hall 3 – Minerals / Aerospace / Seismotectonics

<https://us06web.zoom.us/j/3043828170?pwd=4dLtXGeFfEwWFeKjtmYYxUydapetN.1>

Session Chairs:

1) Dr. Hossein Sadeghi

2) Dr. Dr. Harith A. Alsaad

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
08:15-08:30	1083	Estimation of Ground Moving Target Parameters Using Meta-Heuristic Optimization	Fatemeh Hatami*	V
08:45-09:00	1120	Depth-Dependent Seismic b-Value Variations Near Subduction Slab Tips	Hossein Sadeghi* et al.	P
09:00-09:15	1102	Household Waste Separation Behavior in Urban Iran	Mahkameh Khavamoshi Yazdi*	V
09:15-09:30	1092	House Fly as Bio-Converter of Agricultural and Food Waste	Mohammad Saaïd Dayer*	P
09:30-09:45	1084	Design & Construction of IGC Reactor for Nano-Sulfur Production	Farshid Gholizadeh Roohbakhsh*	V
09:45-10:15		Break time & Networking		B
10:15-10:30	1079	Bi-Directional Dust Dynamics: Source Apportionment Highlighting Overwhelming Iraqi Dominance and Internal Mobilization Impact Across Iran	Amir Karimian Torghabeh*	V
10:30-10:45	1130	Seismicity and Seismotectonic features of the Iran-Iraq border region with emphasis on the Zagros belt and the Badra-Amarah and Khanaqin faults	Sayyed Keivan Hosseini*	P
10:45-11:00	1029	Heave-Robust Selected Arrays with Optimized Sensor Placement for Synthetic Aperture Sonar Imaging	Hamid Hdjirahimi Kashani	V
11:00-11:15	1124	"Surgical innovations in Ferdowsi's <i>Shahnameh</i> : from anesthesia to suturing."	Najm al-Din Gilani	P

Saturday



Hall 4 – Biotechnology / Nano Materials / Cognitive Sciences

<https://us06web.zoom.us/j/5094832450?pwd=6muAwaB2e7LvStk4p3Yrfp6PUsaSel.1>

Session Chairs: 1) Prof. Ammar Algburi 2) Dr.Mohammadreza Nassiri

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
08:00-08:15	1063	Graphene Metasurface Biosensor for Early-Stage Cancer Detection (THz)	Javad Javidan*	P
08:15-08:30	1110	Performance of Penta-Supercell Metamaterial Biosensor	Hamid Heidarzadeh*	P
08:30-08:45	1064	Nanoliposomal Formulation and Characterization of Propolis Extract	Zainab Taheri*	V
08:45-09:00	1070	Antioxidant Activity of Hydrolyzed Camel Milk Proteins	Fatemeh M. Deilamani*	V
09:00-09:15	1022	Medicinal Mushroom Metabolites in Plant Pathogen Control – Review	Faezeh Hosseini*	V
09:15-09:30	1021	Solubility of Biological Compounds in Amino Acid Ionic Liquids	Zahra Rezapour*	V
09:30-09:45	1057	Respiration Rate Estimation Using FMCW Millimeter Wave Radar & VMD	Elahe Nazarian*	V
09:45-10:15	Break time & Networking			B
10:15-10:30	1030	Molecular Docking to Evaluate Antiviral Peptides Against H5N1 Virus	Reza Tohidi*	V
10:30-10:45	1007	Potential of Immunoglobulin Y (IgY) in the Prevention of Gastrointestinal Diseases in Calves	Mohammadreza Nassiri*	P
10:45-11:00	1108	Optical Conductivity and Electronic Structure of Monolayer Plumbene: A First-Principles Study	Hamed Jafarzadeh *	V
11:00-11:15	1016	Thermal Effects on Early-Stage CNT Nucleation: A Classical Molecular Dynamics Study on Iron Catalysts	Morteza Maghrebi*	P
11:15-11:30	1042	The Cognitive–Moral Model of Marital Fidelity: From Impulse Inhibition to Anticipation of Moral Consequences	Atefeh Heyrat*	P

Saturday



Hall 5 – Water & Environmental Sciences / Waste Recycling

<https://us06web.zoom.us/j/2286134693?pwd=SVftiHFmqQIR00iaLZ7xjRG3wMmxhS.1>

Session Chairs: 1) Dr.Mohammad Saaid Dayer 2) Dr.Syed Jamil H. Kazmi

TIME IN IRAQ	PAPER ID	TITLE	PRESENTER	TYPE
08:00–08:15	1116	Rapid Response After Natural Disasters Using Remote Sensing	Syed Jamil H. Kazmi*	P
08:15–08:30	1121	PS-InSAR Monitoring of Land Surface Displacement in Coastal Lowlands	Maryam Khan*	P
08:30–08:45	1122	Temporal Flora Dynamics in Fragmented Ecosystems Using Satellite Imagery and ML Techniques	Saima Shaikh*	P
08:45–09:00	1001	Aquatic insects as indicators of water quality: the case of Khersan River, Iran	Mohammad Saaid Dayer*	P
09:00–09:15	1113	Optimization of Farm Benefits with Water Constraint – Case Study (Rice)	M. Reza Heidari*	P
09:15–09:30	1106	Integrated Effects of Manure and Zeolite on Water/Nitrogen Use Efficiency in Saffron	Morteza Goldani*	V
09:30–9:45	1018	Naproxen removal from aqueous solutions by MIL-101(Cr)	Areej Mohammad*	V
09:45–10:00	Break time & Networking			B
10:00–10:15	1006	Investigation of the feasibility of supplying protein source for animal and poultry feed requirement through black soldier fly farming	Reza Valizadeh*	V

Saturday