

## 1st International Congress on Innovation and Advanced Technology (ICIAT 2024) 30th – 31st October 2024

### 30<sup>th</sup> October 2024 - Sofitel Bahrain Zallaq Thalassa

Day 01 (physical) - 30/10/2024 ( Sofitel Bahrain Zallaq Thalassa)	
Time	Topic
9:00am – 9:30am	Registration
Opening speech	
10:00am – 10:05 am	Opening ceremony
	Quran Citation
10:05 am – 10:10am	His Excellency: Dr. Mohamed bin Mubarak Juma ( Minister of Education) (Chairman of the Board of Trustees of the Higher Education Council)
10:10am – 10:15am	Prof. Mohanad Al Mashadani (Gulf University President)
10:15am -10:20am	Honoring and Awards <ul style="list-style-type: none"> <li>- His Excellency Dr. Mohamed bin Mubarak Juma</li> <li>- Dr.Nikolina Ljepava</li> <li>- Prof.Nikonov Sergey</li> <li>- Prof.Mohammed Sapuan</li> <li>- Prof.Andrea Borroni</li> </ul>
10:20am – 10:25am	Assoc. Prof. Dr. Mohammed Abdulrazaq Alshekhly (Chair of University Research Council)
Keynote presentation	
10:25am – 10:40am	Dr. Nikolina Ljepava: Acting Dean, College of Business Administration, American University in the Emirates.  <u>Topic:</u> The Future of Business Schools: AI, Digital Transformation, and the New Educational Paradigm.
10:40am – 10:55am	Prof. Dr. Mohammed Sapuan Head of Advanced Engineering Materials and Composites Research Centre (AEMC) Universiti Putra Malaysia.  <u>Topic:</u> Application of Artificial Intelligence (AI) in technology, engineering, and manufacturing: Smart manufacturing, robotic and beyond.

10:55am – 11:10am		<b>Coffee Break</b>	
11:10 am – 11:25 am	Prof. Nikonov Sergey Borisovich: Doctor of Political Sciences, Professor of the Department of International Journalism. Saint Petersburg State University  <u>Topic</u> :The role of artificial intelligence in the noopolitical strategy for manipulating international processes.		
11:25am – 11:40am	Prof. Andrea Borroni Professor of Private Comparative Law at the "Luigi Vanivitelli" University of Campani  <u>Topic</u> : The importance of artificial intelligence in education and its relevance to legal frameworks		
11:40am – 12:30pm		<b>Industrial Panel Session</b>	
12:30pm – 1:30pm		<b>Lunch Break</b>	
<b>The 3<sup>rd</sup> INTERNATIONAL CONFERENCE</b> <b>on</b> <b>Science, Engineering, and Advanced Technology</b>			
Day 1, PHYSICAL SESSIONS DETAILS 30 <sup>th</sup> October 2024 13:30 – 15.30 pm 10 min each paper			
<b>Session  SINDI Breakout Room</b>	<b>Engineering and Technology</b>		<b>Session Chair  Dr. Walid Elfezzani</b>

**Ms-Teams Link for Session 1:** <https://events.teams.microsoft.com/event/e3cfeba9-4acf-4483-8e1f-32cb08042f1e@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
13:30-13:40	Full Punching Shear Behavior of Concrete Slabs-column Joint under Membrane Tensile Forces	Ahmed Deifalla	Ahmed Deifalla
13:40-13:50	A review on the comparison of diesel and biodiesel fuels on the spray characteristics.	Muhamed Abdelhamed Bakheta Abdallah,Oula Fatla	Muhamed Abdelhamed Bakheta Abdallah
13:50-14:00	Heat transfer enhancement techniques: an overview	Oula Fatla,Muhamed Abdelhamed Bakheta Abdallah,Oday I.abdulah,Abuthar	Abuthar Abdulghaffar

		Abdulghaffar,Fatema Mohamed Al Jowder	
14:00-14:10	Development of a Mamdani-type Fuzzy Inference System for Assessing Diabetes Risk Based on Clinical and Lifestyle Factors	Dr. Walid EL FEZZANI	Dr. Walid EL FEZZANI
14:10-14:20	An Overview of Industry 5.0: Key Features, Advantages, Limitations and Future Directions	Muhamed Abdelhamed Bakhet Abdallah,Rajkumar Palaniappan,Sathees Kumar Nataraj,Noaman M Noaman,Vikneswaran Vijejan,Fizza Ghulam Nabi	Muhamed Abdelhamed Bakhet Abdallah
14:20-14:30	A Hybrid Bio-Inspired Optimization based Enhanced CH Selection to Improve Communication in Vehicular Ad-Hoc Networks	Fatima Abbas,osama alrawi,Sarmad Mahmood,Ahmed Alkhayyat,Mustafa Hassan,Sameer Alani	Fatima Abbas
14:30-14:40	CAD Tools, Creativity Tools and AI Tools: An Emerging Triade in the Design Process	Omar Blibech,Nadin Hamada	Omar Blibech
14:40-14:50	Uptake of Diatomite Silicon granules by plant growth under Anaerobic conditions and behavior of Diatomite as Silicon Source in different types of Soils	Tanvir Mahmoud Hussein,S.Siva Shankar Prasad,Suresh Gundoju,Anumolu Goparaju	S.Siva Shankar Prasad
14:50-15:00	Piezoelectric Energy Harvesting: A Sustainable Approach to Renewable Energy Generation	Ambi Rachael Alex,Gayth Ed Yunis,Dr.Walid EL FEZZANI	Ambi Rachael Alex
15:00-15:10	Neuro-Symbolic AI and Quantum Computing: Understanding Emotional Regulation in Trauma Survivors	Malak Alqaidoom, Ali Ateeq	Malak Alqaidoom
15:10-15:20	Assessing Smart and Sustainable Technology Adoption in Kerala's Residential Sector: Barriers and Opportunities	Ameera Hydrose, Althaf K.K, Jishna K.S	Althaf K.K
15:20-15:30	Q/A		
15.30-15.45	Break		

15:45-17:45 pm  
 10 min each paper

Session 2 | SINDI  
 Breakout Room

Business and Education

Session Chair | Dr Oula Fatla

**Ms-Teams Link for Session 2:** <https://events.teams.microsoft.com/event/2d08b28c-3903-4f54-8805-cf6ec42d534a@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
15:45-15:55	Insights into Urban Landscapes: A Phenomenological Perspective	Sandra Job,Petra Job	Sandra Job
15:55-16:05	The Impact of Artificial Intelligence Technology and Generative Algorithms on Generating Ideas in Interior Design and Furniture	Ashraf Nadheer,Yasser Ali Maebed,Hadeer Mohsen Khalifa	Hadeer Mohsen Khalifa
16:05-16:15	The Critical Role of Digital Skills in Enhancing Gradu-ate Employability in the GCC: A Perspective on Today's Job Market	Petra Job,Sandra Job	Petra Job
16:15-16:25	Structural Equation Model (SEM) study on HIV.docx	Tanvir Mahmoud Hussein,Womunga Emmanuel,Anumolu Goparaju,Sivasankar Prabaharan	Womunga Emmanuel
16:25-16:35	Transitioning to Sustainability: Analysing Energy Con-sumption Trends and Renewable Energy Potential in Bahrain	Ameera Hydrose,Ambi Rachael Alex,Razeena Junaid	Razeena Junaid
16:35-16:45	The Role of Artificial Intelligence in Achieving Audit Quality in The Kingdom of Bahrain	Ahmad Al Astal,,Jasem Aldoseri,Jaafar Al-Mesaiadeen	Ahmad Al Astal,
16:45-16:55	The Impact of Board of Directors characteristics on finan-cial performance in the Kingdom of Bahrain	Ahmad Al Astal,,Jaafar Al-Mesaiadeen,Habiba Humood	Ahmad Al Astal,
16:55-17:05	The Impact of Auditor's Evaluation of Controls on Computerized Accounting System According to the ISA: Evidence from Palestine	Laith Bani Hani,Husni Samara,Ahmad Al Astal,,Taimaa Kharoub ,Hayder Mohsin ,Alaa Amarna	Laith Bani Hani
17:05-17:15	The Role of Financial Technology and its Impact in Achieving Financial Sustainability: Evidence from Commercial Banks in the Emerging Markets	Husni Samara,Hayder Mohsin,Ahmed Hameed,Ahmad Al Astal,,Hussein Al-daeef, Isra Qaisiyah,Maisaa Omary	Husni Samara

17:15-17:25	The Impact of ESG on Financial Performance: Evidence From Financial Institutions in Gulf Countries	Ahmad Al Astal,,Jaafar Al-Mesaiadeen,Husni Samara,Ali Ateeq,Shafeeq Ali	Ahmad Al Astal,
17:25-17:35	Optimizing Supply Chain Resilience through AI and Machine Learning: Designing A Strategic Framework	Ilham RHAROUBI,Karima Moumane,Kaoutar Talmenssour,Imane Rafik,Naoual Chaouni Benabdellah,Oussama Hamal	Ilham RHAROUBI
17:35– 17:45	Q/A		
<b>18:00</b>	End of the day		

# Day 2, ONLINE SESSIONS DETAILS

## 31<sup>st</sup>, October 2024

The 3<sup>rd</sup> INTERNATIONAL CONFERENCE  
 On  
 Science, Engineering and Advanced Technology  
 SESSIONS DETAILS  
 31<sup>st</sup> October 2024 | Online

Room 101  
 9:00 – 11:05 am  
 10 min each paper

Session 1 |

Engineering and Technology

Session Chair | Dr. Osama Alrawi

**Ms-Teams Link for Session 1:** <https://events.teams.microsoft.com/event/952231dd-ac65-48d5-bda8-88935a97dba5@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Identifying the Number of Active Sensor Nodes for Energy Efficient and Area Coverage in Wireless Sensor Networks	Emad Alnawafa	Emad Alnawafa
9:10 – 9:20	The optimal control strategy for a two-dimensional fractional-order prey-predator model and its discretization	Noor Barhoom	Noor Barhoom
9:20 – 9:30	Effort Estimation Methods for Mobile App Development Projects: A Multiple-Case Study	Enas Abu nijem,Samer Zein	Samer Zein
9:30 – 9:40	Full Behavior of Concrete Slab-Column Joint under Combined Punching-Shear and Tension	Ahmed deifalla,Denise kontoni,Gehad younis	Ahmed deifalla
9:40 – 9:50	Study On Droplet Combustion Characteristic from Mixed Palm Oil and Clove Oil	Fajar Mulyana,Mohamad Zaenudin,Adhes Gamayel,Mohammed M. N.	Mohamad Zaenudin
9:50 – 10:00	How Generative AI Transforms Spam Detection	Amani Alqarni	Amani Alqarni

<b>10:00 – 10:10</b>	Impact of Disasters on Kosovo’s Power Supply Network	Leke Zajmi,Rabab Alayham Abbas Helmi,Hijrah Saputra	Leke Zajmi
<b>10:10 – 10:20</b>	Reliability Evaluation of Prestressed Concrete Bridge Girders Using Probabilistic Monte Carlo Sampling	Hicham Lamouri,Mouna El Mkhalel,Nouzha Lamdouar	Hicham Lamouri
<b>10:20 – 10:30</b>	Distribution Strategies and Technology Innovations: A Study of Malaysia’s Midscale Hotels in the Post-Pandemic Era	Jayanthi Periannan ,Noelah Mae Borbon	Noelah Mae Borbon
<b>10:30 – 10:40</b>	Optimization of Carbon Capture Rates of Chlorella Vulgaris Using Experimental Testing	Hridank Garodia,Reetu Jain,Shiv Kini	Hridank Garodia
<b>10:40 - 10:50</b>	<b>Q/A</b>		
<b>10:50 -11:05</b>	Break		

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**Science, Engineering and Advanced Technology**  
**SESSIONS DETAILS**  
**31<sup>st</sup> October 2024 | Online**

**Room 102**  
**9:00 – 10:55 am**  
**10 min each paper**

**Session 2      Engineering and Technology**

**Session Chair | Dr. Walid Elfezzani**

**Ms-Teams Link for Session 2:** <https://events.teams.microsoft.com/event/5b88c147-c81a-4bff-8632-db4c8022f711@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Design of Smart Watch for Detection and Monitoring Obstructive Sleep Apnea	Ansh Marfatia,Reetu Jain	Ansh Marfatia
9:10 – 9:20	Structural Modeling Of A Vawt Blade To Quantify The Damping Coefficient	Yashwardhan Bajaj,Reetu Jain	Yashwardhan Bajaj
9:20 – 9:30	Investigating passive self balancing mechanism for enhancing stability of floating solar panels	Aditya Sriram Aditya Sriram,Reetu Jain	Aditya Sriram Aditya Sriram
9:30 – 9:40	Integration of Clinical Data and Deep Learning Models for Predictive Diabetic Retinopathy Diagnosis	Anushka Manoj,Reetu Jain	Anushka Manoj
9:40 – 9:50	Optimization of Winglet Design for Reduced Induced Drag in Small Aviation Aircraft Using Computational Fluid Dynamics	Pragya g,Reetu Jain	Pragya g
9:50 – 10:00	Facial Emotion Recognition System for Mental Stress Detection in Students: A Kiosk-Based Approach Using Raspberry Pi	Aarav Sameer Shah,Reetu Jain	Aarav Sameer Shah
10:00 – 10:10	Predicting Optimal NBA Players for Specific Positions Using KNN with Comprehensive Performance Metrics: A Detailed Analysis of Shooting, Defense, Vertical, and Dribbling Skills	Tanmay Yadav,Reetu Jain	Tanmay Yadav



<b>10:10 – 10:20</b>	Clinical Significance of Fever Patterns In Infants	Parth Goyal, Reetu Jain	Parth Goyal
<b>10:20 – 10:30</b>	Advancing Maternal Health: Real-Time Sleep Position Monitoring for Pregnant Women	Riya K, Reetu Jain	Riya K
<b>10:30-10:40</b>	The Integration of AI in Interior Design: Enhancing Creativity and Functionality	Aseel Al Ayash, Dina Al-taha, Mayyadah Hussein, Sanaa El-Asad	Dina Al-taha
<b>10:40– 10:50</b>	The Environmental Footprint of Digital Realities: Quantifying the Impact of the Metaverse and Blockchain on Energy Consumption and Carbon Emissions.	MOHD BASHEER, LUMA ABUORABI	MOHD BASHEER
<b>10:50- 11:00</b>	Q/A		
<b>11:00-11:15</b>	Break		

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**31<sup>st</sup> October 2024 | Online**

**Room 103**  
**9:00 – 11:05 am**  
**10 min each paper**

**Session 3 |**

**Engineering and Technology**

**Session Chair | Ms. Sandra Job**

**Ms-Teams Link for Session 3:** <https://events.teams.microsoft.com/event/24af28b7-539e-499b-972a-a463b5ce9a2f@c0f99961-4657-4d4a-9057-a9d00e2df999>

<b>Time</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Presenter</b>
<b>9:00 – 9:10</b>	Enhanced Fake News Detection Using Advanced Deep Learning Models: A Comparative Study of LSTM, BiLSTM-CNN, and BERT	Kalapraveen Bagadi, Visalakshi Annepu, Adnan N. Jameel Al-Tamimi, Deepika Rani Sona, Mohammed M. N., Oday Abdullah	Kalapraveen Bagadi
<b>9:10 – 9:20</b>	Automated Detection of Coconut Leaf Diseases Using Deep Learning Techniques	Visalakshi Annepu, Kalapraveen Bagadi, Adnan N. Jameel Al-Tamimi, Vaegae Naveen Kumar, M. N. Mohammed, Oday Abdullah	Visalakshi Annepu
<b>9:20 – 9:30</b>	Designing a PID controller using ant colony optimization and implementing it with FPGA	Naik Chandrababu, Ravi Kumar CV2, Hari Prasad M, Muhsin Jweeg, Dr. Mohammed Alshekhly, Oday Abdullah	Naik Chandrababu
<b>9:30 – 9:40</b>	Evaluating and Analysis of Potential Establishing Solar Power Plant in the Modern City of Bismayah, Iraq	Ahmed AL Hamadani, Oday Abdullah, Adnan N. Jameel Al-Tamimi, Dr. Mohammed	Ahmed AL Hamadani

		Alshekhly ,Doszhan Nursultan	
<b>9:40 – 9:50</b>	Design and Implementation of Octocopter Drone	Mohammed Al Khalidi,Ahmed Al Khalidi	Ahmed Al Khalidi
<b>9:50 – 10:00</b>	Real-Time Monitoring for 3D Printing to Ensure Quality and Accuracy	Mohammed Al Khalidi,Ammar Isa	Ammar Isa
<b>10:00 – 10:10</b>	AI for Early-Stage Sustainable Architecture: Minimizing Prediction, Expectation, and Outcome Gaps A Case Study Review of Hypar's Capabilities	Abdelrahman Gadalla,Eleni Tracada,Omar Hamza	Abdelrahman Gadalla
<b>10:10 – 10:20</b>	Development of Integrated Technologies Based Operating System for Milling Machine	Kamran Latif,Aini Zuhra Abdul Kadir,Yusri Yusof,Azizul Qayyum Bin Basri,Syed Mudassir,Ansari Fayaz Ahmed,Yazeed Mohammed Ahmed Al-Mashani,Khalid Rajeh Salim Al-Amri,Abdullah Zeyad Ali Al Shaikh,Ahmed Ali Mohammed Said Al Aamri,Said Ahmed Said Al Maashani	Kamran Latif
<b>10:20 – 10:30</b>	Securing Location Data in Smart Cities: A Framework for Detecting GPS Spoofing Attacks	Hani Al-Balasmeh,Mariam Emad	Hani Al-Balasmeh
<b>10:30 – 10:40</b>	A Review of Physical Layer Impairments in DWDM Networks: Detection and Mitigation Methods	Osamah N. Qasim,Wael A.H. HADI	Osamah N. Qasim
<b>10:40-10:50</b>	Q/A		
<b>10:50-11:05</b>	Break		

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**31<sup>st</sup> October 2024 | Online**

**Room 104**  
**9:00 – 11:05 am**  
**10 min each paper**

**Session 4 |**

**Engineering and Technology**

**Session Chair | Dr. Omar Bibech**

**Ms-Teams Link for Session 4:** <https://events.teams.microsoft.com/event/f540be2f-26d8-4533-a362-355243715f78@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Intelligent Monitoring System for Adaptive Medication Dosage in Chronic Disease to Mitigate Drug Resistance and Toxicity	Jessica Goyal, Prannat Sharma, Reetu Jain	Reetu Jain
9:10 – 9:20	Crop Disease Detection and Treatment Recommendation: A Deep Learning Based Image Classification System	Sourish Suri, Reetu Jain	Sourish Suri
9:20 – 9:30	Enhancing Weather Prediction Using Machine Learning: A Data-Driven Approach for Forecasting Weather for Event Planning	Suhaan Mobhani, Reetu Jain	Suhaan Mobhani
9:30 – 9:40	Wearable Health Monitor for Older Adults: Leveraging Sensors and Machine Learning for Tracking Vital Signs and Physical Activity	Ishmit Singhania, Reetu Jain	Ishmit Singhania
9:40 – 9:50	Experimental Investigation and FEA Simulation Analysis of Solar Panel Deployment Mechanism Used in Satellites	Suhani Shah, Reetu Jain	Suhani Shah
9:50 – 10:00	Experimental Investigation of Bearing Structure as Seismic Resilience in the Case of an Earthquake	Damian Garg Damian Garg, Reetu Jain	Damian Garg Damian Garg
10:00 – 10:10	Investigating Earwig wings structure as a potential spacecraft structural design in terms of lowering airspeed to optimize the drop load and packaging efficiency	Khuman Patodiya, Reetu Jain	Khuman Patodiya
10:10 – 10:20	Experimental investigation of the variable speed gearbox to enhance the output efficiency of HAWT	Yajvin Singhal Yajvin Singhal, Reetu Jain	Yajvin Singhal Yajvin Singhal
10:20 – 10:30	Development of a Prototype Device for Image Classification of Drunk vs. Sober	Manvy Devraj, Advik Ghatiwala, Reetu Jain	Advik Ghatiwala

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	Individuals Using a Convolutional Neural Network (CNN) Model		
<b>10:30 – 10:40</b>	Experimental investigation of the active and passive passenger cooling solutions on small three-wheeler vehicle	Linayesha Kumawat, Reetu Jain	Linayesha Kumawat
<b>10:40 - 10:50</b>	Q/A		
<b>10:50 -11:05</b>	Break		

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On  
Science, Engineering and Advanced Technology  
SESSIONS DETAILS  
31<sup>st</sup> October 2024 | Online**

**Room 105  
9:00 – 11:05 am  
10 min each paper**

**Session 5 |**

**Engineering and Technology**

**Session Chair | Dr. Zuhia Alani**

**Ms-Teams Link for Session 5:** <https://events.teams.microsoft.com/event/44e2da4c-8c8d-4e4e-8940-e3e440128c9c@c0f99961-4657-4d4a-9057-a9d00e2df999>

<b>Time</b>	<b>Paper Title</b>	<b>Authors</b>	<b>Presenter</b>
9:00 – 9:10	California Weather Prediction for Wildfire Conservation - Using Ensemble Machine Learning and EDA Analysis	Abir Jaaj, Reetu Jain	Abir Jaaj
9:10 – 9:20	Development and Implementation of a Greenhouse Gas Detection System in Cattle Sheds: Addressing Environmental and Health Impacts through Sensor Technologies	Ved Patel, Reetu Jain	Ved Patel
9:20 – 9:30	Investigating Kangaroo Legs as Bioinspired Vibration Damper for Heavy Load Vibrational	Abeer Gosain, Reetu Jain	Abeer Gosain
9:30 – 9:40	Harnessing Machine Learning for Improved Gravitational Wave Detector Glitch Classification	Shivam Narhari, Reetu Jain	Shivam Narhari
9:40 – 9:50	Stellar Classification: Advanced Machine Learning Techniques for Accurate Classification using scikit-learn	anaya jain, Reetu Jain	anaya jain
9:50 – 10:00	Intelligent deep-learning based app for music therapy of autistic children	Prisha Jain, Reetu Jain	Prisha Jain
10:00 – 10:10	Design of Robotics Arm for Accurate Mimicking of Human Jobs	Neev Gupta Neev Gupta, Yashica Jain, Reetu Jain	Yashica Jain Yashica Jain
10:10 – 10:20	Conversion of waste plastic into fuel through pyrolysis	dhiyan gada, Reetu Jain	dhiyan gada
10:20 – 10:30	A Wearable Machine Learning based Affective States Detection Device and Personal Mood Assistant for Bipolar Disorder using Non-Invasive Biomarkers	Iniya Mahendran, Reetu Jain	Iniya Mahendran
10:30 – 10:40			
10:40 - 10:50	Q/A		

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**SESSIONS DETAILS**  
**31<sup>st</sup> October 2024 | Online**

**Room 106**  
**9:00 – 11:05 am**  
**10 min each paper**

**Session 6 |**

**Engineering and Technology**

**Session Chair | Ms. Ambi Rachel**

**Ms-Teams Link for Session 6:** <https://events.teams.microsoft.com/event/3d961d0c-e3ae-4ebb-96f9-16a98397fe98@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Cervical Spine Posture Monitoring using Flex and IMU Sensors with Long Short-Term Memory Networks	Reetu Jain	Reetu Jain
9:10 – 9:20	Exploring the Applications of Random Forest Classifier for Predicting Employee Retention in Engineering Organizations	boumedyen shannaq	boumedyen shannaq
9:20 – 9:30	Energy Efficiency and Schedulability Examination for Real-Time Multiprocessor Systems via Employing Machine Learning Techniques	Walid Karamti	Walid Karamti
9:30 – 9:40	Adaptive Web Application Firewall for Multi-Threat Detection	MUSKAN MAHESHWARI	MUSKAN MAHESHWARI
9:40 – 9:50	Design and Fabrication a New Omani Halwa Machine	Khalid Al Hinai	Khalid Al Hinai
9:50 – 10:00	Green synthesis of Fe nanoparticles with Peumus boldus extract and its application in the removal of crystal violet.	Aixa González	Aixa González
10:00 – 10:10	A CMF Design Methos of Smart Wearable Products for Diabetic Elderly Based on Kansei Engineering and KANO Model	Jinglong Li	Jinglong Li

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<b>10:10 – 10:20</b>	Using Polyethylene Glycol 4000 As Corrosion Inhibitor For Brass Alloy In Sulfuric Acid	farah Mohammed	farah Mohammed
<b>10:20 – 10:30</b>	Development and Implementation of an Automatic Control System for Automated Production Line Training System Using PLC and SCADA	Ali Noori	Ali Noori
<b>10:30 – 10:40</b>	Stress Analysis of a Small-Scale Wind Turbine Blade Based on the Numerical Approach	Oday Abdullah	Oday Abdullah
<b>10:40 - 10:50</b>	Q/A		
<b>10:50 -11:05</b>	Break		

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31<sup>st</sup> October 2024 | Online

Room 101  
9:00 – 11:05 am  
10 min each paper

Session 7 |

Engineering and Technology

Session Chair | Dr. Oula Fatla

**Ms-Teams Link for Session 7:** <https://events.teams.microsoft.com/event/aba7b42e-8d5d-4724-a7fb-7697aa1ae7f6@cf99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	FPGA Realization of Neural Network Accelerator for Im-age Classification	Oday Abdullah	Oday Abdullah
9:10 – 9:20	Optimization of IRS Network Using Machine Learning for Enhanced Performance in Beyond 5G Network	Oday Abdullah	Oday Abdullah
9:20 – 9:30	An Analysis of Real-Time Applications Using CBR and HTTP as Internal Routing Protocols	Oday Abdullah	Oday Abdullah
9:30 – 9:40	Assessment and Analysis of Wind Energy Resources in Iraq Based on Rayleigh Model	Oday Abdullah	Oday Abdullah
9:40 – 9:50	2E Analysis of an Earth-to-Air Geothermal Heat Ex-changer under Arid Zone	Oday Abdullah	Oday Abdullah
9:50 – 10:00	Study the effect of Hf Concentration at Porous Silicon (PS) Surface Preparation and Applied as NO <sub>2</sub> Gas Sensor	Oday Abdullah	Oday Abdullah
10:00 – 10:10	Image Captioning Using LSTM and CNN: A Deep Learning Approach	Oday Abdullah	Oday Abdullah
10:10 – 10:20	Enhancing Healthcare Network Effectiveness Through SD-WAN Innovations	Abdulrahman Abdulghani,Azizol Abdullah,Amir Rahiman,Nor Asilah Abdul Hamid,Bilal Akram	Abdulrahman Abdulghani

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<b>10:20 – 10:30</b>	ImageGafter - AI-Driven Data Augmentation for Computer Vision	Madhuri Barhate, Shравan Kalzunkar, Hitesh Tolani, Diksha Teware, Ashwanti Gaikwad, Rutuja Diwate	Shравan Kalzunkar
<b>10:30 – 10:40</b>	A new approach to solve nonlinear Caputo-Fabrizio fractional differential equations	Rami AlAhmad	Rami AlAhmad
<b>10:40 - 10:50</b>	Q/A		
<b>10:50 -11:05</b>	Break		

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 31<sup>st</sup>October 2024 | Online

Room 201 9:00 – 11:25 am 10 min each paper			
<b>Session 1  </b>	<b>Business and Education</b>	<b>Session Chair  </b>	<b>Dr.</b> <b>Abdulqader Omran</b>

**MS-Team Link for Session 1:** <https://events.teams.microsoft.com/event/953f9294-3f33-45f0-9e8a-d95f00d09347@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Transforming 5G Networks: Harnessing Deep Learning for Policy Optimization and Governance	Noor Mohammedali, Triantafyllos Kanakis, Michael Agyeman	Noor Mohammedali
9:10 – 9:20	FROM DIOPHANTUS AND AL-KHWAREZMI TO THE MODERN TIME	Elena Burova, Syrgak Kydyraliev, Anarkul Urdaletova, Saltanat Japarova	Elena Burova
9:20 – 9:30	Agile Talent Management: A Scoping Review	Ravikiran Dwivedula	Ravikiran Dwivedula
9:30 – 9:40	Exploring the Empowerment of Women in Ernakulam Through the Kudumbashree Microfinance Initiative	Ms. Sara Elias, Dr. Sharmilla Ashraf	Ms. Sara Elias
9:40 – 9:50	Sustainable Livelihoods for Gig Workers: Exploring Policy Interventions and Addressing Key Challenges	Dr. Sahana B.S, Dr. Sharmila Rao, Ms. Sara Elias	Dr. Sahana B.S
9:50 – 10:00	Data Driven Organization in the Age of AI	Rachid Zine	Rachid Zine
10:00 – 10:10	The Role of Corporate Governance Principles on Companies' Performance	Najla'a AlKilani, Bassam Hijazi, Hikmat Chamma	Najla'a AlKilani

<b>10:10 – 10:20</b>	Beyond Borders: Charting a Course for the Future of Multilateral Cooperation	Udaysimha N G,Siddhi Suman,Aditya Kamal Tadepalli	Aditya Kamal Tadepalli
<b>10:20 – 10:30</b>	Interactive Healthcare Solutions: NLP Systems with Personalized Conversational Agents and Long-term Memory	Dr.k. kalaiselvi,Fr.Dr lijo p Thomas,Vignesh K	Vignesh K
<b>10:30 – 10:40</b>	Integration of Data Security in Insurance's Information system by using Blockchain Technology	Chua Shang Ren,Rabab Alayham Abbas Helmi	Chua Shang Ren
<b>10:40-10:50</b>	Design and Analysis of a Helicopter Rotor Blade	M.N Mohammed*, Abdalla Kassem, Marwan Salah Hameed, Salah Al-Zubaidi, oday i.abdullah	
<b>10:50-11:00</b>	Design a Support System for Ankle and Foot Injuries	M.N Mohammed*, Abdalla Kassem, Marwan Salah Hameed, Salah Al-Zubaidi, oday i.abdullah	
<b>11:00-11:10</b>	<b>Q/A</b>		
<b>11:10-11:25</b>	Break		

**The 3<sup>rd</sup>INTERNATIONAL CONFERENCE**  
**On**  
**Science, Engineering and Advanced Technology**  
**SESSIONS DETAILS**  
**31<sup>st</sup> October 2024 | Online**

<b>Room 202</b> <b>9:00 – 11:25 am</b> <b>10 min each paper</b>			
<b>Session 2  </b>	<b>Business and Education</b>	<b>Session Chair  </b>	<b>Dr. Ferhat Ylmaz</b>

**Zoom Link for Session 2:** <https://events.teams.microsoft.com/event/758b6a90-4ca2-456b-bb20-84c93f0314e4@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	IT Project Managers and Their Utilization of ML/DL Frameworks: An Expert Survey of Evidence	Nana Kwame Gyamfi, Adam Amril Jaharadak, Haslinda S.A Nawi	Nana Kwame Gyamfi
9:10 – 9:20	Investigating the Integration of Blockchain into Supply Chains to Measure Scope 3 Carbon Emissions: A Survey	Krishiv Kukreja, Reetu Jain	Krishiv Kukreja
9:20 – 9:30	Stomata Detection and Plant Health Analysis Using YOLOv8 in Microscopic Imaging	Pratyush Singhal, Reetu Jain	Pratyush Singhal
9:30 – 9:40	Market Differentiation Strategies in the Perfume Industry: Economic Implications of Brand Value	Eeshan Sawant, Reetu Jain	Eeshan Sawant
9:40 – 9:50	Economic Burdens Associated with Availing Mental Health Services: A Data Driven Analysis	Sahaj Sohi , Reetu Jain	Sahaj Sohi
9:50 – 10:00	ROLE OF MOTIVATION ON PROFESSIONALISM IN TEACHERS	Asmita S. Talwelkar, Ananta Geetey Uppal	Asmita S. Talwelkar
10:00 – 10:10	Extending the EOQ Model: A Mathematical Framework for Incorporating Real-World Constraints	PATEL NIRMAL RAJNIKANT, RITU KHANNA	PATEL NIRMAL RAJNIKANT

<b>10:10 – 10:20</b>	Balancing Service Level Agreement and Costs in Service Operations: A Goal Programming Model	Priyank Chauhan,PATEL NIRMAL RAJNIKANT	Priyank Chauhan
<b>10:20 – 10:30</b>	Reimagining Interior Design with Artificial Intelligence	Shakir M. Usman,Waseem H. Malibari	Waseem H. Malibari
<b>10:30 – 10:40</b>	Exploring the Applications of Random Forest Classifier for Predicting Employee Retention in Engineering Organizations	boumedyen shannaq,Said Al Maqbali,Oualid Ben Ali ,Afraa Al Zeidi	Oualid Ben Ali
<b>10:40-10:50</b>	Design and Fabrication of Water Turbine Prototype	M.N Mohammed*, Zuhair Nafea Alani1, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
<b>10:50-11:00</b>	Design and Development of Hydro Power Generation using Zero Head Turbine	M.N Mohammed*, Zuhair Nafea Alani1, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
<b>11:00-11:10</b>	<b>Q/A</b>		
<b>11:10-11:25</b>	Break		

**The 3<sup>rd</sup> INTERNATIONAL CONFERENCE**  
**On**  
**Science, Engineering and Advanced Technology**  
**SESSIONS DETAILS**  
**31<sup>st</sup> October 2024 | Online**

**Room 203**  
**9:00 – 11:25 am**  
**10 min each paper**

**Session 3 | Business and Education    Session Chair | Ms. Ameera Hydrose**

**Zoom Link for Session 3:** <https://events.teams.microsoft.com/event/88acdb55-4aea-4e1d-b36c-3d8e2de8b5e8@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Strategic Ambidexterity in Indonesia's Automotive Sec-tor: A Pathway to Digital Transformation and Innovation	Mohamad Azizi,Syarifa Hanoum,Jerry Dwi Trijoyo Purnomo	Mohamad Azizi
9:10 – 9:20	Cultivating Success: A Study of Organizational Culture, Learning Organization, and Knowledge Management in Enhancing Enterprise Fintech Performance	Arifani Helga,Dian Indiyati,Ratna Komala Putri	Arifani Helga
9:20 – 9:30	THE E-COMMERCE APPLICATION CONTINUANCE INTENTION OF USE ANALYSIS WITH MODIFIED UTAUT2 MODEL (The Case of Bukalapak Indonesia)	Nara Seta,Dodie Tricahyono	Nara Seta
9:30 – 9:40	Adopting Online Tax Systems: Analyzing Factors Affecting User Intentions at PHRI's Online Tax System Using SEM PLS Techniques	Ayu Yuliarti Dharma Putri,Astri Ghina	Ayu Yuliarti Dharma Putri
9:40 – 9:50	A Strategic Business Model Improvement Using Business Model Canvas, SWOT Analysis, IE Matrix, and Balanced Scorecard: A Case Study of iForte Solusi Infotek	Rizky Andri Rachman,Dodie Tricahyono	Rizky Andri Rachman

9:50 – 10:00	ASSESSMENT FOR LEARNING IN A THERMODYNAMICS COURSE FOR ENGINEERING STUDENTS	L-Nicolás Schiappacasse,Aixa González,Jaime Castillo,Alejandra Sánchez,Ignacio Acuña	Aixa González
10:00 – 10:10	Urban Planning as an ally for the Regeneration of the Central Canton of Barva de Heredia, Costa Rica in a Smart City Adaptable to Climate Change	Fabiola Umaña Chacón,Agustín Alfaro Salas,Susana Araya Ramírez	Agustín Alfaro Salas
10:10 – 10:20	Exploring Legal Text Inconsistencies Generated by Large Language Models (LLMs)	Manotar Tampubolon,Matthew Justice P Tampubolon	Matthew Justice P Tampubolon
10:20 – 10:30	The Impact of Sustainable Human Resource Management on Employee Performance: Literature Review and SEM Approach	Ratih Pratiwi,Andiena Nindya Putri,Kusnida Indrajaya,Agus Suyatno ,Nurul Mardhiah Sitio	Ratih Pratiwi
10:30 – 10:40	Insights from Initial Observations on Senior Entrepreneurs' Facebook	Marlina Muhamad,Fariza Hanis Abd Razak,Haryani Haron	Marlina Muhamad
10:40-10:50	Design and Development of a Space Mining Robot	M.N Mohammed*, Marwan Salah Hameed, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
10:50-11:00	Design and Development of a Rocker-Bogie Space Debris Collector for Extraterrestrial Cleanup	M.N Mohammed*, Fares Alqutami, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
11:00-11:10	Q/A		
11:10-11:25	Break		



**The 3<sup>rd</sup> INTERNATIONAL CONFERENCE**  
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**Science, Engineering and Advanced Technology**  
**SESSIONS DETAILS**  
**31<sup>st</sup> October 2024 | Online**

**Room 204**  
**9:00 – 11:05 am**  
**10 min each paper**

**Session 4 | Business and Education**  
**Session Chair | Mr. Mohammed Abdelhameed**

**Zoom Link for Session 4:** <https://events.teams.microsoft.com/event/a2e24294-b48d-42da-b82f-2a1c6b5412c0@c0f99961-4657-4d4a-9057-a9d00e2df999>

Time	Paper Title	Authors	Presenter
9:00 – 9:10	Coffee Grounds and Ecology: Attitudes of Coffee Consumers Based on Sociodemographic Characteristics	Jiří Zelený, Jana Kalabisová, Jan H án, Jan Zelenka	Jana Kalabisová
9:10 – 9:20	Forecasting the Financial Failure of Iraqi Banks Listed on the Stock Exchange Using Altman Z"-Score Model	Mohsen Younis Thabit, Bushra Najem Abdullah Al-Mashhadani	Bushra Najem Aabdullah Al-Mashhadani
9:20 – 9:30	The Influence of Platform Economies on Traditional Industries' Organizational Structures and Dynamics	Dylan van Rooyen, Marie Hattingh	Dylan van Rooyen
9:30 – 9:40	The Role of Platform Economies in Contributing to Innovation and Entrepreneurship within Digital Ecosystems: A Systematic Literature Review	Muhammad Ayob, Marie Hattingh	Muhammad Ayob
9:40 – 9:50	Teachers' Perceptions of The Impact of Educational Reforms Implemented By Abu Dhabi Education Council on Teacher Efficacy in Selected Government Schools	Cherry Jean Dela Cruz Recio, Liza Macasukit Gernal, Adnan Jawabri, Nidhi Oswal	Cherry Jean Dela Cruz Recio

9:50 – 10:00	Credit Card Customer Segmentation and Attrition	Gaurav Sulsule,Sangita Lade,Manali Dubla,Aastha Jain,Kaustubh Singh	Gaurav Sulsule
10:00 – 10:10	Bridging Theory and Practice: Pre-Service Teacher's Efficacy and Preparedness in the K to 12 Curriculum Through Online Internship	Raisa Mae Cena,Charity Rose Pagara,Mia Phoebe Ajo	Raisa Mae Cena
10:10 – 10:20	Design and Optimization of Vertical Axis Wind Turbine For Urban Environment	M.N Mohammed*, Marwan Salah Hameed, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
10:20 – 10:30	Identifying and Assessing On-Site Construction Material Cost problems: A Case Study	Zuhair Nafea Alani1, M.N Mohammed*, Salah Al-Zubaidi, oday i.abdullah	
10:30 – 10:40	Design and Optimization of Electro-Magnetic Suspension System for Automotive Sector	M.N Mohammed*, Marwan Salah Hameed, Zuhair Nafea Alani1, Salah Al-Zubaidi, oday i.abdullah	
10:40-10:50	Design and Development of Durable and Efficient Pros-theses Leg	M.N Mohammed*, Zuhair Nafea Alani1, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
10:50-11:00	Design and Development of Adaptive Car Spoiler	M.N Mohammed*, Fares Alqutami, Abdalla Kassem, Salah Al-Zubaidi, oday i.abdullah	
11:00- 11:10	Photocatalysis for removing long chain alkane residues from water using Chitosan coated TiO <sub>2</sub> nanocatalyst	Tanvir Mahmoud Hussein,Tentu Nageswara	

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Rao,S.Siva Shankar  
Prasad,Anumolu  
Goparaju

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11:10-11:20	Q/A
11:20- 11:30	Break

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