

Computer Applications and Technical Solution(CATS'23)

Gulf University for Science & Technology

29 - 30 October 2023

Program Schedule

<https://cats23.gust.edu.kw>

Day 1 Sunday 29/10/2023						
Time & Place		Event				
08:30 am - 09:30 am W6 Hall		Coffee & Registration				
09:30 am - 10:00 am W6-200		Opening Ceremony				
10:00 am - 10:45 am W6-200		Keynote Speaker: Prof. Hatim Zaghoul President, Chairman & CEO Innovation Inc.				
10:45 am - 11:00 am W6 Hall		Coffee Break				
11:00 am - 11:45 am W6-200		Keynote Speaker: Dr. Anwar Alharbi IT Consultant TV Show Presenter Kuwait State Television (KTV1 + KTV2)				
Session 1						
12:00 pm- 02:00 pm W6-200		Data Leakage in Kuwait, Reasons and Solutions Safaa Zaman	Investigating the Relationship Between Cohesion and Inheritance Quality Attributes Empirically Jehad AlDallal	Assessing English Language Writing and Readability Skills using Long Short-Term Memory Model Ahmad Mayahi	Cloud data Management, a challenge to security Muzna Asif	Natural Data Synthesis using AI Aishwarya Aresh
02:00 pm - 03:00 pm W6-hall		Lunch				

<p>03:00 pm - 03:45pm W6-200</p>	<p>Keynote speaker: Prof. Andries Engelbrecht Department of Industrial Engineering, and Division of Computer Science. University of Stellenbosch, South Africa.</p>				
<p>03:45 pm - 05:00pm W6-200</p>	<p>Session 2-a</p>				
	<p>FDI and Sustainable GDP for Select Asian Countries: The Role of Innovative Asymmetric Analysis Khalid Kisswani.</p>	<p>Urban Data Management using Cloud Computing and IoT) Ahsan Javaid</p>	<p>APDO: A Hybrid Aquila Optimizer and Prairie Dog Optimization Metaheuristic Algorithm for Global Optimization Farouq Zitouni</p>	<p>HortiTECH: Design and Fabrication of a Tree Plantation Drone Zeashan Hamee Khan</p>	<p>Human Activity Recognition using Convolutional Neural Network Meenal Dugar</p>
<p>03:45 pm - 05:00pm W6-500</p>	<p>Session 2-b</p>				
	<p>Music Genre Classification Meenal Dugar</p>	<p>Modular Analysis of Dataset Balancing Techniques For Binary Classification Albert Boateng</p>	<p>Unveiling Twitter Sentiments: Analyzing Emotions and Opinions through Sentiment Analysis on Twitter Dataset) Jannatul Ferdoshi</p>	<p>A Machine Learning approach to analyze depressive comments on social media platforms Raisa Rodela</p>	<p>Superfast AI and ML on Mobile Aishwarya Aresh</p>
<p>08:00 pm - 09:00 pm</p>	<p>Conference Dinner</p>				

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Day 2 Monday 30/10/2023	
Time & Place	Event
08:30 am - 09:00 am W6 Hall	Coffee & Registration
09:00 am – 09:45 am W6-200	Keynote Speaker: Prof. Yervant Zorian Chief Architect and Fellow at Synopsys & President of Synopsys Armenia
09:45 am - 10:00 am W6 Hall	Coffee Break
10:00 am - 10:45 am W6-200	Keynote Speaker: Dr. Muhamad Felemban Director, Center for Intelligent Secure Systems Assistant Professor, Computer Engineering Department KFUPM
10:45 am -12:15 pm W6-200	Panel discussion-To GPT or Not to GPT: This is NOT the question. Organizer and Moderator: Prof. Magdy Bayoumi Head of W. H. Hall Department of Electrical & Computer Engineering

Session 1						
12:30 pm - 2:00 pm W6-200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 16.6%; padding: 5px;"> Empirical Exploration of the Relationship Between Coupling and Method Interaction-Based Cohesion Measures for Object-Oriented Classes Jehad AlDallal </td> <td style="width: 16.6%; padding: 5px;"> A Comparative Analysis of Customer Service Chatbots: Efficiency, Usability and Application Ehsanur Rhythm </td> <td style="width: 16.6%; padding: 5px;"> Agriculture Automation: Utilizing Convolutional Neural Networks for Potato Leaf Disease Detection And Classification Dr. Sakshi </td> <td style="width: 16.6%; padding: 5px;"> Overcoming the Challenges of Data Sharing in Artificial Intelligence Systems: A Comprehensive Review of Techniques and Best Practices Farwa Javeed </td> <td style="width: 16.6%; padding: 5px;"> IoT Data Management and A Brief Analysis of IoT in the Health Industry Muhammad Ali Sarwar </td> </tr> </table>	Empirical Exploration of the Relationship Between Coupling and Method Interaction-Based Cohesion Measures for Object-Oriented Classes Jehad AlDallal	A Comparative Analysis of Customer Service Chatbots: Efficiency, Usability and Application Ehsanur Rhythm	Agriculture Automation: Utilizing Convolutional Neural Networks for Potato Leaf Disease Detection And Classification Dr. Sakshi	Overcoming the Challenges of Data Sharing in Artificial Intelligence Systems: A Comprehensive Review of Techniques and Best Practices Farwa Javeed	IoT Data Management and A Brief Analysis of IoT in the Health Industry Muhammad Ali Sarwar
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02:00 pm - 03:00 pm W6-hall	Break with snacks and refreshments					
03:00 pm - 04:00 pm W6-200	Workshop by Microsoft “A new AI Reality - Innovation Re-imagined” Speaker: Mike Ghafour - Microsoft Data&AI Lead Abdulmonein Hassan - Microsoft Modern Work Lead					
Session 2						
03:00 pm - 04:00 pm W6-500	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33.3%; padding: 5px;"> Constructing COVID-19 Pandemic Prediction Models Using Positivity Rate Jehad Al Dallal </td> <td style="width: 33.3%; padding: 5px;"> Realtime object detection and recognition device for blind and partially blind People (NanoEye)* Isma Hamid </td> <td style="width: 33.3%; padding: 5px;"> Prediction of Environmental Conditions of The Greenhouse Using Neural Networks Optimized with The Grasshopper Optimization Algorithm (GOA) Rohoolah Barzamin </td> </tr> </table>	Constructing COVID-19 Pandemic Prediction Models Using Positivity Rate Jehad Al Dallal	Realtime object detection and recognition device for blind and partially blind People (NanoEye)* Isma Hamid	Prediction of Environmental Conditions of The Greenhouse Using Neural Networks Optimized with The Grasshopper Optimization Algorithm (GOA) Rohoolah Barzamin		
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04:00 pm - 05:00 pm W6-200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Practical Considerations for Phase Change Materials in Kuwaiti Building Envelopes: A Data-driven Approach Ahmad Sedaghat </td> <td style="width: 50%; padding: 5px;"> Text-based Q&A: Automated Question Generation and Answering for Enhanced Data Processing Ehsanur Rahman Rhythm </td> </tr> </table>	Practical Considerations for Phase Change Materials in Kuwaiti Building Envelopes: A Data-driven Approach Ahmad Sedaghat	Text-based Q&A: Automated Question Generation and Answering for Enhanced Data Processing Ehsanur Rahman Rhythm			
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04:00 pm - 05:00 pm W6-500	Session 3-b		
	<p>Machine Learning Algorithms to Determine the Water Quality: Comparative Analysis Based Study</p> <p>Vikas Verma</p>	<p>Design of A Comprehensive Soil Analysis and Crop Recommendation System using Machine Learning Algorithms</p> <p>Phaneendra Chintalapati</p>	<p>Explain Ability, Fairness and Trust in Data Systems and Analysis</p> <p>Malaika Ayub</p>
07:30 pm - 09:30 pm	Trip to Kuwait Towers and Al Mubarakiya traditional market		