DeSE 2024 Programme at a Glance

DAY 1 – Wednesday, 6th November 2024 (University of Sharjah)		
Time (UAE time)	**Event**	
10:00 - 11:00	Arrival time to the venue	
11:00 – 12:00	Registration, networking and coffee	
12:00- 12:30	Morning session: Welcome Speech, Opening Ceremony & Keynote Speaker 1 (on-site and live broadcast), ***Al-Bayroni lecture theatre*** - UAE National Anthem and Quran Citation - Welcome Speech from the University of Sharjah, Prof. Hamid M K Al Naimiy (Chancellor – University of Sharjah) - Welcome Speech from the University of Khorfakkan, Prof. Ali H Al Naqbi (Chancellor – University of Khorfakkan) - Welcome Speech from IEEE UAE section, Prof. Hussein Al-Ahmad (IEEE UAE section) - Conference opening, Professor Dhiya Al-Jumeily OBE (DeSE founder and chair)	
12:30- 13:00	Keynote speech 1: Autonomous Machine Learning: developing neural network models with quantum-inspired evolutionary algorithm, Prof Marley Vellasco (online)	
13:00 -14:00	Lunch Break	
14:00-15:00	Keynote speech 2: Leveraging Remote Sensing and AI for Comprehensive Urban and Environmental Management in Dubai, Prof Hussain Al-Ahmad (on-site/online)	
14:45 – 15:15	Parallel Session 1 (online) https://meet.google.com/qyt-igga-bzp Session Chair: Dr Manar Abu Taleb Session Co-chair: Dr Raouf Farah and Prof Abir Hussain	Parallel Session 2 (online) https://meet.google.com/mzf-abzh-vby Session Chair: Dr Venkata Veera Muralee Gopi Chandu Session Co-chair: Muhammad Mubasshir Shaikh	Parallel Session 3 (online) https://meet.google.com/wks-hhnw-yte Session Chair: Dr Aseel Hussein Session Co-chair: Prof Hissam Tawfik and Dr Ayad Turky
15:15 - 15:30	Coffee Break	
15:30 - 16:30	Parallel Session 4 (on-site) ***Al-Bayroni lecture theatre*** Session Chair: Prof Anwar Jarndal Session Co-chair: Dr Khawla Alnajjar	Parallel Session 5 (on-site) ***M9002*** Session Chair: Prof Ismail Shahin Session Co-chair: Dr Saeed Abdullah	Parallel Session 6 (on-site) ***M9005*** Session Chair: Prof Bashar Afif Issa Session Co-chair: Dr Dilber Uzan Ozahin
16:30-17:00	Social reception and drinks, closure of day 1	
17:00	**End of Day 1**	
DAY 2 – Thursday, 7th November 2024 (University of Khorfakkan)		
11:00 - 12:30	Buses leave to University of Khorfakkan from two pick up points: - Sharjah Centro - Round about UO	
12:30 – 13:00	Welcome Speech and reception from the University of Khorfakkan ***Al Shohadaa lecture theatre***	

Time			
13:00 – 13:45	Invited speaker 1: How can we engineer an ocean recovery? The AI, robotics, and sensor needs for marine conservation, Prof Brendan Godley (on-site) **Al Shohadaa lecture theatre**		
13:45 – 14:30	Keynote speaker 3: Bat Biosonar as a Model for Alternative Approaches to Sonar Sensing, Prof Rolf Mueller (on-site) **Al Shohadaa lecture theatre**		
14:30 – 15:30	Lunch Break		
15:30 - 17:00	Parallel Session 7 (on-site) **Al Shohadaa lecture theatre** Session chair: Dr. Henrik Stahl Session cochair: Dr. Roqaya Ismail	Parallel Session 8 (online) https://meet.google.com/gpj-exjj-und Session chair: Dr Hiba Alsmadi Session cochair: Dr Walid Rafeh , Dr Nabil Mansour	
	Parallel Session 9 (online) https://meet.google.com/zeg-dreg-hwk Session chair: Dr Nagwa Zouair Session cochair: Dr Masuda Wardak	Parallel Session 10 (online) https://meet.google.com/oga-ustj-feh Session chair: Dr Mustafa Rabbani Session cochair: Dr Muhammad Ali Asadullah	Special Session: Marine Life (on-site) **Al Shohadaa lecture theatre** Session chair: Dr. Henrik Stahl Session cochair: Dr. Roqaya Ismail
17:00 – 18:30	Cultural trip in the city of Khorfakkan followed by dinner at Al Sahab Skyview		
18:30	**End of Day 2**		
DAY 3 – Friday, 8th November 2024 (DHCC (Dubai Healthcare Centre, Al Razi Complex, Building 64 Block D, Fifth floor, DHCX Hall)			
11:00 – 12:00	Welcome from Dubai Healthcare Centre **Hall 1**		
12:00 – 13:00	Workshop on AI and data in healthcare (on-site) **Hall 1**		
13:00-14:00	Lunch break		
14:00 -15:00	Parallel Session 11 (online) https://meet.google.com/yon-mjqh-edz Session chair: Dr Wasiq Khan Session cochair: Miss Mahasin Dimassi	Parallel Session 12 (online) https://meet.google.com/bvf-zpxj-iip Session chair: Dr Sulaf Assi Session cochair: Mr Saleh Mansour	Parallel Session 13 (online) https://meet.google.com/mrm-wmsx-dsx Session chair: Prof Jamila Mustafina Session cochair: Dr Manoj Jayabalan
15:00-16:00	Parallel Session 14 (online) https://meet.google.com/bxa-efss-ipo Session chair: Prof Jamila Mustafina Session cochair: Dr Ala Alkafri	Parallel Session 15 (online) https://meet.google.com/ttu-fsux-tqo Session chair: Dr Shamaila Iram Session cochair: Dr Nabil Mansour	Parallel Session 16 (online) https://meet.google.com/xhp-pnzs-nkd Session chair: Dr Sulaf Assi Session cochair: Dr Thomas Coombs

16:00-16:15	Coffee break		
16:15-17:15	Parallel Session 17 (online) https://meet.google.com/xar-wojn-ogv Session chair: Prof Jamila Mustafina Session cochair: Dr Manoj Jayabalan	Parallel Session 18 (online) https://meet.google.com/vsw-sidf-nrq Session chair: Dr Shamaila Iram Session cochair: Miss Mahasin Dimassi	Parallel Session 19 (online) https://meet.google.com/ypi-fgym-jof Session chair: Dr Sulaf Assi Session cochair: Mr Saleh Mansour
17:15	**End of Day 3 and closure of the conference**		

TECHNICAL PROGRAM-Wednesday, 6TH November 2024

Keynote lecture 1: Autonomous Machine Learning: developing neural network models with quantum-inspired evolutionary algorithm, <u>Professor Marley Vellasco,</u> *(Pontifical Catholic University of Rio de Janeiro, Brazil)*

Keynote lecture 2: Leveraging Remote Sensing and AI for Comprehensive Urban and Environmental Management in Dubai, <u>Prof Hussain Al-Ahmad, (</u>*The University of Dubai and IEEE UAE Section).*

Parallel session 1 (online):
e-System Engineering (Main Track)

- ***Intrusion Detection in OT/SCADA Cyber Security and Tabular Generative Adversarial Networks***
  Hillol Biswas (WAPCOS Limited, India); Muthyala Manoj Kumar (Wapcos Limited, India); Pawan Kumar (WAPCOS Limited, India)
  [1571011885]

- ***Assessing AI-Powered Personal Assistant Siri: A Risk Analysis Using ISO/IEC 27005***
  Leen Abugokh (Canadian University Dubai, United Arab Emirates); Minnath Hasheer (Canadian University Dubai, United Arab Emirates); Hamda Ismail (Canadian University Dubai, United Arab Emirates); Gandeva Bayu Satrya (Canadian University Dubai, United Arab Emirates)
  [1571032469]

- ***Design of a Mechatronic Endoskeleton Robot for Inspection Tasks: Model Reference Adaptive Control (MRAC) for Serpentine Locomotion With Stability Analysis***
  Ammar K. Al Mhdawi (De Montfort University, United Kingdom (Great Britain)); Nick Wright (Newcastle University, United Kingdom (Great Britain)); Mohammed I. Younis (Department of Computer Engineering, College of Engineering, University of Baghdad, Iraq); Amjad Humaidi (University of Technology, Iraq)
  [1571044968]

- ***Crack Width Detection for Concrete Structures Using Thermal Images and Artificial Neural Network***
  Anwar Hamdan (Emirates School Establishment, United Arab Emirates); Ahmed Bingamil (University of Sharjah, United Arab Emirates); Sadeque Hamdan (Bangor University, United Kingdom (Great Britain)); Tiago Gualdrapa Soares (Universidade de Lisboa, Portugal); Saleh Abu

Parallel session 2 (online):
e-System Engineering (Main Track)

- ***Speech Enhancement: A Review of Various Approaches, Trends, and Challenges***
  Basheera M. Mahmmod (University of Baghdad & College of Engineering, Iraq); Sadiq H. Abdulhussain (University of Baghdad, Iraq); Taghreed Mohammed Ali (University of Baghdad, Iraq); Muntadher Alsabah (Al-Farahidi University, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))
  [1571066306]

- ***Effective Noise Reduction in Biomedical Speech Signals: A Case Study on Parkinson's Disease***
  Khawla Ahmed Al-Tayeb (University of Sharjah, United Arab Emirates); Hagar Elbatanouny (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571066464]

- ***Speech Enhancement Algorithm Using Deep Learning and Hahn Polynomials***
  Ammar Al-Zubaidi (University of Baghdad, Iraq); Riyadh Bassil Abduljabbar (University of Baghdad, Iraq); Basheera M. Mahmmod (University of Baghdad & College of Engineering, Iraq); Sadiq H. Abdulhussain (University of Baghdad, Iraq); Marwah Abdulrazzaq Alkhafaji (University of Baghdad, Iraq); Muntadher Alsabah (Al-Farahidi University, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))
  [1571069835]

- ***Improving Cardiovascular Prediction Performance Using Machine Learning Based Feature Selection***
  Marwah Abdulrazzaq Alkhafaji (University of Baghdad, Iraq); Muntadher Alsabah (Al-Farahidi University, Iraq); Sadiq H. Abdulhussain (University of Baghdad, Iraq);

Dabous (Civil Engineering, United Arab Emirates); Imad Alsyouf (University of Sharjah, United Arab Emirates); Fatma Hosny (University of Sharjah, United Arab Emirates)

[1571046062]

- ***Smart Office System: A Review***
  Aseel Habeeb Gatea Al-lami (University of Basrah, Iraq); Alaa Al-Ibadi (The University of Basrah, Iraq & University of Salford, United Kingdom (Great Britain)); Musaab Alaziz (University of Basrah & WINLAB, Rutgers University, Iraq)

[1571065450]

Parallel session 3 (online): e-System Engineering (Main Track)

- ***Computer Vision-Driven AI Techniques for Classification of Animal Species***
  Anthony Bacon (Liverpool John Moores University, United Kingdom (Great Britain)); Abbas Saad Alatrany (Liverpool John Moores University & University of Information Technology and Communications, United Kingdom (Great Britain)); Luke Topham (Liverpool John Moores University, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain)); Iftikhar Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Abir J Hussain (Liverpool John Moores University, United Kingdom (Great Britain)); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain))

[1571071835]

- ***Artificial Intelligence and Its Role in Optimizing Inventory Management: A Simulation Study***
  Cian Dafydd Roberts (Liverpool John Moores University, United Kingdom (Great Britain)); Abbas Saad Alatrany (Liverpool John Moores University & University of Information Technology and Communications, United Kingdom (Great Britain)); Mahmood Alsaadi (Al-Maarif University, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain)); Omar Aldhaibani (Liverpool John Moores University, United Kingdom (Great Britain))

[1571072363]

Basheera M. Mahmmod (University of Baghdad & College of Engineering, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

[1571069879]

- ***A Cross-Modal Aware Scalable Approach for Fake News Detection***
  Nalinika Liyanage (Teesside University Middlesbrough, United Kingdom (Great Britain)); Muhammad Diyan (Teesside University, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)

[1571071683]

Parallel session 4 (on-site): e-System Engineering (Main Track)

- ***Leveraging Memetic Algorithm and Machine Learning Methods for Email-Based Spam Detection***
  Ayad Turky (University of Sharjah, United Arab Emirates); Manal Ali Alteneiji (University of Sharjah, United Arab Emirates); Mariam Khalid AlAli (University of Sharjah, United Arab Emirates); Ibrahim Hashem (University of Sharjah, United Arab Emirates); Omar Salah F. Shareef (University of Fallujah, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571046414]

- ***Transformer-Less Grid Voltage Controller Through SCR Switches and a Flexible Pulse Device***
  Hussain Attia (American University of Ras Al Khaimah, United Arab Emirates); Mohammad Rabih Aziz (American University of Sharjah, United Arab Emirates)

[1571076974]

- ***Advanced Techniques in Channel Estimation, Precoding, and Detection for Massive MIMO Systems in 5G and Beyond***
  Khawla Alnajjar (University of Sharjah, United Arab Emirates); Sam Ansari (University of Sharjah, United Arab Emirates); Abdulla Mohammed Alhammadi (University of Sharjah, United Arab Emirates); Ali Abdullatif Almahal (University of Sharjah, United Arab Emirates); Fahim Hafizar Rahman (University of Sharjah, United Arab Emirates); Abdulla Salim Alsuwaidi (University of Sharjah, United Arab Emirates); Khalifa Yousif Alzarooni

- ***Drowsiness Detection System Using Mobile Application Development***
  Mirza Mubashir Baig (Teeside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Muhammad Diyan (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1571072686]

- ***Online Job Search Application With Automatic Recommendation and Notification System: Leveraging AI and ML for Enhanced User Experience***
  Ebenezer Babalola (Teesside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1571072688]

- ***Agri Sage: A Mobile Application for Agricultural Disease Detection, E-Commerce, and Real-Time Information Systems***
  Talha Aslam (Teesside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1571072692]

Parallel session 5 (online): e-System Engineering (Main Track) & AI and its Applications in Healthcare

- ***Towards Efficient Diabetic Retinopathy Diagnosis: A Comparative Study of Classification Techniques***
  Khawla Ahmed Al-Tayeb (University of Sharjah, United Arab Emirates); Anwar Hasan Jarndal (United Arab Emirates & University of Sharjah, United Arab Emirates); Talal Bonny (University of Sharjah, United Arab Emirates); Sohaib Majzoub (University of Sharjah, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates)
  [1571017123]

- ***Effects of Hybrid Contrast Enhancement and Bilateral Filtering for Enhancing***

(University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
[1571077003]

- ***Pioneering MIMO Technologies: Enabling the Next Generation of 5G Networks and Beyond***
  Khawla Alnajjar (University of Sharjah, United Arab Emirates); Sam Ansari (University of Sharjah, United Arab Emirates); Yousuf Salem Alhmoudi (University of Sharjah, United Arab Emirates); Rashid Ibrahim (University of Sharjah, United Arab Emirates); Ahmed Abdalla Alblooshi (University of Sharjah, United Arab Emirates); Yousif Bohamad (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571077197]

- ***Enhancing Wildlife Protection: Poacher Detection Using Machine Learning Models***
  Omar Gad (University of Sharjah, United Arab Emirates); Hagar Elbatanouny (University of Sharjah, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Jawad Yousaf (Abu Dhabi University, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571077944]

Parallel session 6 (on-site): Deep Learning Techniques and Applications & The Impact of Artificial Intelligence on the Future of Higher Education

- ***Prediction of Asthma Attacks Using ANFIS and Mobile Technologies***
  Kasim M. Al-Aubidy (Tishk International University, Iraq); Aynoor Al-Turk (Philadelphia University, Jordan); Mustafa Awwad Al-khawaldeh (Philadelphia University Jordan, Jordan)
  [1571048509]

- ***AI and IoT Technologies for Remotely Accessed Laboratories***
  Kasim M. Al-Aubidy (Tishk International University, Iraq)
  [1571049947]

- ***Efficient Solution for Exam Timetabling Problem: A Case Study of the University of Sharjah***

Ultrasound Thyroid Cancer Images Classification
Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Zubaida Sa'id Ameen (Near East University Cyprus, Cyprus); Taha Fouad (University Hospital Sharjah, United Arab Emirates); Dalal Yousef Omar Alnakhalah (University of Sharjah, United Arab Emirates); Sareh Khalvati (University of Sharjah, United Arab Emirates); Safa Zeinal Dastras (University of Sharjah, United Arab Emirates); Wesam Ali Hidar (University of Sharjah, United Arab Emirates); Reem Hassan Mohamed Saleh Alobeidli (University of Sharjah, United Arab Emirates); Mohit Pandey (Goa Medical College, India); Aisha Alshuweihi (University Hospital Sharjah, United Arab Emirates); Abdulmonhem Obaideen (University Hospital Sharjah, United Arab Emirates); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Auwalu Saleh Mubarak (Near East University, Cyprus)

[1571067566]

- ***Intelligent Sustainable Robot for Efficient Marine Environment Monitoring Using Li-Fi Technology***
  Bara Fteiha (Abu Dhabi University, United Arab Emirates); Hala Samer (Abu Dhabi University, United Arab Emirates); Fatima Almazrouei (Abu Dhabi University, United Arab Emirates); Shouq Mohamed (Abu Dhabi University, United Arab Emirates); Sultanah Al-Zubaidi (Abu Dhabi University, United Arab Emirates); Fahid Riaz (Abu Dhabi University, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Jawad Yousaf (Abu Dhabi University, United Arab Emirates)

[1571078553]

- ***A Review of Screening Heart and Lung Diseases Using Auscultation and Artificial Intelligence***
  Samah Osama Atayeb (Abu Dhabi University, United Arab Emirates); Leqaa Salah Hassan (Abu Dhabi University, United Arab Emirates); Gena Dahi Abazed (Abu Dhabi University, United Arab Emirates); Mohammed A. Ghazal (Abu Dhabi University, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Jawad Yousaf (Abu Dhabi University, United

Israa Lulu (University of Sharjah, United Arab Emirates); Hind Al-owais (University of Sharjah, United Arab Emirates); Ayad Turky (University of Sharjah, United Arab Emirates); Saad Harous (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571052052]

- ***Lightweight Hybrid Model Combining MobilNet V2 and PCA for Copy-Move Forgery Detection***
  Issam Shallel (University of Anbar, Iraq, Iraq); Lamia Rzouga (University of Sousse, LATIS-Laboratory of Advanced Technology and Intelligent Systems, Tunisia); Najoua Essoukri Ben Amara (University of Sousse & Laboratory of Advanced Technology and Intelligent Systems, Tunisia)

[1571075148]

- ***Enhanced Detection of Copy-Move Forgery by Fusing Scores From Handcrafted and Deep Learning-Based Detection Systems***
  Issam Shallel (University of Anbar, Iraq, Iraq); Lamia Rzouga (University of Sousse, LATIS-Laboratory of Advanced Technology and Intelligent Systems, Tunisia); Najoua Essoukri Ben Amara (University of Sousse & Laboratory of Advanced Technology and Intelligent Systems, Tunisia)

[1571075161]

- ***ANFIS-Based Mathematical Model of Mechanical Ventilator***
  Mustafa Awwad Al-khawaldeh (Philadelphia University Jordan, Jordan)

[1571077147]

Arab Emirates); Taimur Hassan (Abu Dhabi University, United Arab Emirates)

[1571081174]

- ***Network-Based Multi-Protocol Attack Detection in Internet-Of-Medical-Things Using Explainable Machine Learning***
Mohammed M. Alani (Rochester Institute of Technology (RIT-Dubai), United Arab Emirates)

[1571082964]

- ***Quantum Radar: Overview on Technology, Limitations and Opportunities***
Mariam Alalili (University of Sharjah, United Arab Emirates); Mohammed Bin Ali Maqqavi (University of Sharjah, United Arab Emirates); Qassim MH Nasir (University Of Sharjah, United Arab Emirates); Manar Abu Talib (University of Sharjah, United Arab Emirates)

[1571085103]

TECHNICAL PROGRAM-Thursday, 7TH November 2024

Invited speaker: How can we engineer an ocean recovery? The AI, robotics, and sensor needs for marine conservation, Prof Brendan Godley, *University of Exeter, Falmouth, UK*

Keynote lecture 3: Bat Biosonar as a Model for Alternative Approaches to Sonar Sensing, Prof Rolf Mueller, *Virginia Tech; Virginia, USA*

Parallel sessions

Parallel session 7 (on-site): e-System Engineering (Main Track)

- ***Android Forensics Analysis: Is It Incognito?***
Issraa Ben Mnaouer (Canadian University Dubai, United Arab Emirates); Ayman Samsudeen (Canadian University Dubai, United Arab Emirates); Moustafa Sherif (Canadian University Dubai, United Arab Emirates); Alanood Alreyashi (Canadian University Dubai, United Arab Emirates); Amina Bashar (Canadian University Dubai, United Arab Emirates); Gandeva Bayu Satrya (Canadian University Dubai, United Arab Emirates)

[1571031670]

- ***Early Stage Kidney Chronic Diseases Diagnosis Using Feature Fusion and Deep Learning Algorithms***
Tanzila Saba (Prince Sultan University, Saudi Arabia); Muhammad Mujahid (Prince Sultan University, Saudi Arabia); Noor Ayesha (Zhengzhou University Zhengzhou, China); Mahyar Kolivand (School of Medicine, University of Liverpool, United Kingdom (Great Britain))

[1571032828]

Parallel session 8 (online): e-System Engineering (Main Track)

- ***Enhancing Machine Learning-Based Model for Early Detection of Diabetes***
Njideka Linda Dike (Teesside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)

[1571072701]

- ***Advancements in AI: A Study of English-To-Urdu Dubbing Methods and Applications***
Mariam Arshad (Teesside University, Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)

[1571072703]

- ***A LoRa-Based Communication System for Real-Time Location Tracking and Emergency Signaling in Military Simulation Exercises***
Omar Aldhaibani (Liverpool John Moores University, United Kingdom (Great Britain)); Ben Hamilton (Liverpool John Moores University,

- ***Enhancing Freezing of Gait Prediction in Parkinson's Disease Using Machine Learning and Explainable AI***
  Hagar Elbatanouny (University of Sharjah, United Arab Emirates); Natasa Kleanthous (O and P Electronics and Robotics Ltd, Cyprus); Suhaib Salah (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

  [1571066329]

United Kingdom (Great Britain)); Martin Randles (Liverpool John Moores University, United Kingdom (Great Britain)); Ian Fitzpatrick (Liverpool John Moores University, United Kingdom (Great Britain))

[1571073287]

- ***Assisting Airport Security Screening Through YOLO Techniques and Generating Results Using LIME Interpretation***
  Ruchen Liu (Teesside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)

  [1571073515]

- ***Automated Detection and Classification of Brain Tumors From MRI Images***
  Jose Ankitha (Teesside University Middlesbrough, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Muhammad Diyan (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)

  [1571073536]

- ***A Novel Technique of Android Stealth Rooting***
  Kashif Kifayat (University of Khor Fakkan, United Arab Emirates); Bilal Ahmed Kamal (Air University, Pakistan); Abdul Basit Shahid (Air University, Pakistan); Syed Muhammad Sajjad (Air University, Pakistan); Khwaja Mansoor (Air University, Pakistan)

  [1571074211]

Parallel session 9 (online): e-System Engineering (Main Track)

- ***Reducing Bandwidth and Storage Requirements for Surveillance Videos Using ROI Extraction and Compression***
  Maryam H. Fadel (University of Baghdad, Iraq); Ahlam H. Shanin Al-Sudani (University of Baghdad, Iraq); Sadiq H. Abdulhussain (University of Baghdad, Iraq); Basheera M. Mahmmod (University of Baghdad & College of Engineering, Iraq); Muntadher Alsabah (Al-Farahidi University, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

  [1571074793]

- ***Artificial Intelligence as a Tool for the Regeneration of Historic City Centers***
  Amani Kamal (University of Technology, Iraq); Venus Suleiman Akef (The University of Technology, Iraq)

  [1571075419]

- ***Using Intelligent Solutions to Improve Logistics Processes***
  Irina Makarova (Kazan Federal University, Russia); Aleksey Boyko (Kazan Federal University, Russia); Vadim Mavrin (Kazan Federal University,

Parallel session 10 (online): e-System Engineering (Main Track)

- ***Covid-19 Classification Using Cough Audio - A Comparison of Deep Learning Vs Traditional Ml Algorithms***
  Sowndarya Venkateswaran (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia)

  [1571080447]

- ***Identity-Preserved Facial Diversity With Gans and Recognition via Few-Shot Approach***
  Swarnava Bhattacharjee (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia)

  [1571080450]

- ***Design and Development of "Smart Metre Reading" and Monitoring System From Digital Metre Dataset***
  Jang Bahadur Singh Umath (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia)

  [1571080451]

- ***Evaluating Handheld Spectroscopic Techniques and Machine Learning Algorithms***
  Jade Bradbury (Liverpool John Moores University, United Kingdom (Great Britain)); Thomas Coombs (Toxicologist, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores

Russia); Jamila Mustafina (Kazan Federal University, Russia)

[1571078826]

- ***Cryptography Role in Industry 4.0 Through Privacy of Data and Communications Using Hybrid Encryption Algorithms***
  Musadaq Hadi (CERT-IQ, University of Technology, Iraq); Mohammed Abdulredha (University of Baghdad, Iraq); Mustafa M. Baraka (CERT-IQ, Iraq); Ali Hussein Hamdullah (CERT-IQ, Iraq)

[1571079446]

- ***Identification of Cosmetics Using Near-Infrared Spectroscopy***
  Jordan Thomas (Bournemouth University, United Kingdom (Great Britain)); Sarah Rowlands (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Tilak Ginige (Bournemouth University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain))

[1571080039]

- ***Improving e-Commerce With Intelligent Solutions***
  Irina Makarova (Kazan Federal University, Russia); Aleksey Boyko (Kazan Federal University, Russia); Jamila Mustafina (Kazan Federal University, Russia)

[1571080427]

University, United Kingdom (Great Britain)); Jason Birkett (Liverpool John Moores University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain))

[1571080995]

- ***Impact of Outliers on Regression and Classification Models: An Empirical Analysis***
  Sam Ansari (University of Sharjah, United Arab Emirates); Ali Bou Nassif (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Sohaib Majzoub (University of Sharjah, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Anwar Hasan Jarndal (United Arab Emirates & University of Sharjah, United Arab Emirates); Talal Bonny (University of Sharjah, United Arab Emirates); Khawla Alnajjar (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571081287]

- ***Utilising Artificial Intelligence to Augment Physiotherapy Education: A Video-Based Analysis and Grading System for Evaluating Student Therapists' Performance***
  Victor Umesiobi (Teesside University, United Kingdom (Great Britain)); Hiba Al Smadi (Teesside University, United Kingdom (Great Britain)); Victor Hammond (Teesside University, United Kingdom (Great Britain)); Gok Kandasamy (Teesside University, United Kingdom (Great Britain)); Ala Al Kafri (Teesside University, United Kingdom (Great Britain))

[1571082377]

Special session: Marine Life (On-site)
- ***Collective Artificial intelligence underwater: distributed autonomous systems for environmental monitoring,*** Dr. Guilia De Masi (Khalifa University; Abu Dhabi, UAE)
- ***Comprehensive Data Acquisition for Cetacean Monitoring: A Review of Photo-Identification Methods,*** Dr. Fatin Mohamed (University of Khorfakkan, Sharjah, UAE)
- ***Marine Species Detection Using AI in the Sea of Oman***, Dr. Fouad Lamghari (Fujairah Research Center, Fujairah, UAE)
- ***Chlorophyll Dynamics in Relation to Upwelling and Nutrient Availability in the Arabian Gulf and Sea of Oman,*** Dr. Kaltham Ismail (University of Khorfakkan, Sharjah, UAE)
- ***Thermal Enhancement of PCR using ternary hybrid nanofluids and its effect on fish DNA barcode reads,*** Dr. Akbar John (University of Khorfakkan, Sharjah, UAE)
- ***Characterization and Bioremediation Potential of Novel Biosurfactant-Producing Bacterial Strains from Oil-Contaminated Seawater in the UAE,*** Dr. Roqaya Ismail (University of Khorfakkan, Sharjah, UAE)
- ***Monitoring microplastics pollutants in the Arabian Gulf and Gulf of Oman,*** Dr. Tarig Ali (University of Khorfakkan, Sharjah, UAE)
- ***Advanced Nanomaterials for Water Treatment: Agriculture Sustainability,*** Dr. Gomaa Ali (University of Khorfakkan, Sharjah, UAE)

TECHNICAL PROGRAM-Friday, 8TH November 2024

Workshop on AI and data in healthcare (on-site)
Prof. Abir Hussain, *University of Sharjah, UAE*
Dr. Mohammed Al-Jumaily, *Al Zahraa Hospital, UAE*

Parallel sessions

Parallel session 11 (online): AI applications in Medical Imaging & AI and its Applications in Healthcare

- ***Bi-Dimensional Attention-Based SAR Change Detection With SEBlock and MHSA***
  Mohamed Ihmeida (Buckinghamshire New University, United Kingdom (Great Britain)); Muhammad Shahzad (University of Reading, United Kingdom (Great Britain))
  [1571079213]

- ***Remote Monitoring of Muscle Activity by Integrating Stacking Ensemble Classifier for Surface Electromyography Signals***
  Alya AlNuaimi (University of Sharjah, United Arab Emirates); Hissam Tawfik (University of Sharjah, United Arab Emirates); Hayssam Dahrouj (King Abdullah University of Science and Technology (KAUST) & Center of Excellence for NEOM Research, Canada); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571080274]

- ***Classification of Osteoporosis in Knee X-Rays Using Transfer Learning & Random Forest***
  Wesam Ali Hidar (University of Sharjah, United Arab Emirates); Auwalu Saleh Mubarak (Near East University, Cyprus); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Hissam Tawfik (University of Sharjah, United Arab Emirates); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)
  [1571080471]

- ***AI-Enabled Diagnosis of Lumbar Spinal Stenosis From Axial MR Images Using Convolutional Neural Network and Image Explainer***
  Uthman O. Oyebanji (SSE Renewables, United Kingdom (Great Britain)); Ala Al Kafri (Teesside University, United Kingdom (Great Britain)); Hiba Al Smadi (Teesside University, United Kingdom (Great Britain)); Mohammad Alkasasbeh (East Lancashire Hospitals NHS Trust, United Kingdom (Great Britain)); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain))
  [1571082392]

Parallel session 12 (online): AI and its Applications in Healthcare

- ***Using of Near-Infrared Spectroscopy and Machine Learning Algorithms for the Detection of Cardiovascular Diseases and Diabetes Mellitus in Fingernails***
  Megan Wilson (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Ismail Abbas (Lebanese University, Lebanon); Jason Birkett (Liverpool John Moores University, United Kingdom (Great Britain)); Iftikhar Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Matthew L Harper (Liverpool John Moores University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain))
  [1571043780]

- ***Enhancing Comorbidity Diagnosis With Adversarial Ensemble Learning***
  Dhafar Hamed Abd (University of Anbar, Iraq); Dheyauldeen Mukhlif (ENET'Com, Tunisia); Ridha Ejbali (Faculty of Science of Gabes, Tunisia); Adel M. Alimi (REGIM, University of Sfax, National School of Engineers, Tunisia); Mohammed Fadhil Mahdi (Al-Mansour University College, Iraq)
  [1571065913]

- ***Adversarial Arabic Fake News Detection Based on Machine Learning***
  Dhafar Hamed Abd (University of Anbar, Iraq); Maysoon Ahmed Abbas (Sfax, Tunisia); Mondher Frikha (University of Sfax, Lebanon); Adel M. Alimi (REGIM, University of Sfax, National School of Engineers, Tunisia); Mohammed Fadhil Mahdi (Al-Mansour University College, Iraq)
  [1571065919]

- ***Enhance Cancer Text Classification Using Multi Word Embedding and Ensemble Learning***
  Dhafar Hamed Abd (University of Anbar, Iraq); Mohammed Fadhil Mahdi (Al-Mansour University College, Iraq); Ahmed Subhi Abdalkafor (University of Anbar, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571070371]

- ***Leveraging the Novel MSHA Model: A Focus on Adrenocortical Carcinoma***
  Mubarak Taiwo Mustapha (Operational Research Center in Healthcare, near East University,

- ***Evaluating Few-Shot Prompting Approach Using GPT4 in Comparison to BERT-Variant Language Models in Biomedical Named Entity Recognition***
  Kranthi Kumar Konduru (Liverpool John Moores University, United Kingdom (Great Britain)); Friska Natalia (Universitas Multimedia Nusantara, Indonesia); Sud Sudirman (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))
  [1571084415]

Parallel session 13 (online): AI and its Applications in Healthcare

- ***Evaluation of Bone Cancer Treatment Techniques***
  Efe Precious Precious Onakpojeruo (Operational Research Centre in Healthcare, near East University, Nicosia, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Ilker Ozsahin (Near East University, Turkey); Christiana Chioma Efe (College of Education Mosogar, Nigeria); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)
  [1571071505]
- ***Ensemble Predictive Modeling for Dementia Diagnosis***
  Basil Bartholomew Duwa (Operational Research Center in Healthcare, Turkey); Efe Precious Precious Onakpojeruo (Operational Research Centre in Healthcare, near East University, Nicosia, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Ilker Ozsahin (Near East University, Turkey); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)
  [1571071634]
- ***Deep Learning-Based CT-Scan Image Classification for Accurate Detection of Pancreatic Cancer: A Comparative Study of Different Pre-Trained Models***
  Natacha Usanase (Near East University, Cyprus); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Ilker Ozsahin (Near East University, Turkey); Abir Jaafar Hussain

Turkey); Efe Precious Precious Onakpojeruo (Operational Research Centre in Healthcare, near East University, Nicosia, Cyprus); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Berna Uzun (Near East University, Turkey); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)
[1571070915]

Parallel session 14 (online): AI and its Applications in Healthcare

- ***Adversarial Ensemble Learning for Mortality Prediction in Intensive Care Units***
  Dhafar Hamed Abd (University of Anbar, Iraq); Kareem Hameed Khalaf (University of Tabriz, Iran); A. Moallemi Khiavi (University of Tabriz, Iran)
  [1571072736]
- ***Selection Techniques in Genetic Algorithm***
  Efe Precious Precious Onakpojeruo (Operational Research Centre in Healthcare, near East University, Nicosia, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Ilker Ozsahin (Near East University, Turkey); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)
  [1571072813]
- ***Hybridized Paradigms for the Clinical Prediction of Lung Cancer***
  Natacha Usanase (Near East University, Cyprus); Abdullahi Garba Usman (Near East University, Operational Research Centre in Healthcare, Turkey); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Ilker Ozsahin (Near East University, Turkey); Berna Uzun (Near East University, Turkey); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)
  [1571072918]

- ***Global Life Expectancy Prediction Using Machine Learning Ensemble Techniques***
  Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Declan Ikechukwu Emegano (Operational Research Center in Healthcare, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Berna Uzun

(University of Sharjah, United Arab Emirates); Berna Uzun (Near East University, Turkey)

[1571072591]

- ***Application of Fuzzy PROMETHEE in the Analysis of Childbirth Techniques***
Natacha Usanase (Near East University, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Ilker Ozsahin (Near East University, Turkey)

[1571072617]

- ***A Decision-Making Approach in the Clinical Diagnosis and Treatment of Vulva Cancer***
Natacha Usanase (Near East University, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Ilker Ozsahin (Near East University, Turkey)

[1571072622]

Parallel session 15 (online): AI and its Applications in Healthcare

- ***Evaluating ELISA for Prostate Cancer Detection: A Hybrid PROMETHEE-TOPSIS Approach Using Prostate-Specific Antigen Levels***
Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Declan Ikechukwu Emegano (Operational Research Center in Healthcare, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Berna Uzun (Near East University, Turkey); Ilker Ozsahin (Near East University, Turkey)

[1571074658]

- ***Heart Attack Prediction by Integrating Independent Component Analysis With Machine Learning Classifiers***
Abbas Khalifa Nawar (Imam Alkadhim University College, Iraq); Sabah Abdulazeez Jebur (Imam Alkadhim University College, Iraq); Hasan Abdulrazzaq Jawad (Imam Alkadhim University College, Iraq); Motherfer Majeed Jahefer (Imam Alkadhim University College, Iraq); Lafta Alkhazraji (Imam Jafaar Al-Sadiq University, Iraq); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571075956]

(Near East University, Turkey); Ilker Ozsahin (Near East University, Turkey); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571072965]

- ***Machine Learning-Based Predictive Modeling of Mental Health Comorbidities***
Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates); Declan Ikechukwu Emegano (Operational Research Center in Healthcare, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Berna Uzun (Near East University, Turkey); Ilker Ozsahin (Near East University, Turkey); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates)

[1571072976]

Parallel session 16 (online): The Impact of Artificial Intelligence on the Future of Higher Education & Digital Media: Augmented and Virtual Reality

- ***Taxonomy and Accurate Survey of Fake Face Recognition System in E-Learning Platforms***
Bilal Abdulsatar Fadel (University of Anbar, Iraq); Ahmed Subhi Abdalkafor (University of Anbar, Iraq)

[1571064896]

- ***Design and Analysis of Synchronous and Asynchronous Buck Converters in Electrical Applications***
Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Mustafa Mohammed Kareem (University of Anbar, Iraq)

[1571073633]

- ***Real-Time Services Robot With an Intelligent System Based on a Radio Frequency Identification Unit***
Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Mohanad Abdulsalam Alaskari (University of Anbar, Iraq)

[1571075538]

- ***Aug-Viz: An Augmented Reality Based Tool to Visualize Human Skeleton for Medical Students of Bangladesh***
Towfik Ahmed (Liverpool John Moores University, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain));

- ***Integrating ANFIS, ANN, & MLR With MCDM for Accurate Prediction of Lung Cancer for Improved Clinical Decision Support***
  Efe Precious Precious Onakpojeruo (Operational Research Centre in Healthcare, near East University, Nicosia, Cyprus); Berna Uzun (Near East University, Turkey); Leena R David (University of Sharjah, United Arab Emirates & Manipal College of Health Professions Manipal Academy of Higher Education, India); Ilker Ozsahin (Near East University, Turkey); Christiana Chioma Efe (Near East University, Nicosia, Turkey); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)

  [1571076446]
- ***QHD-DIC: Quantum-Driven Heart Stroke Detection Using Destructive Interference Clustering***
  Aryaman Paliwal (IIIT Kota, India); Vatsal Adhiya (IIIT Kota, India); Deepanshi Birla (IIIT Kota, India); Hemant Sharma (IIIT Kota, India); Gyan Singh Yadav (IIIT Kota, India)

  [1571077769]
- ***Enhancing ICD-9 Code Prediction With BERT: A Multi-Label Classification Approach Using MIMIC-III Clinical Data***
  Irshad A Buchh (Oracle Corporation & Amazon Web Services, USA)

  [1571077988]

Omar Aldhaibani (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

[1571077952]

- ***Artificial Intelligence Technologies in Higher Education: Reality and Challenges***
  Sultan T. Abu-Orabi (Tishk International University, Iraq)

  [1571081371]
- ***Integrating Computational Design and Mixed Reality Wearables for Enhanced Distance Learning in Architectural Engineering***
  Aref Maksoud (University of Sharjah, United Arab Emirates); Aseel Hussien (University of Sharjah, United Arab Emirates); Sarah Isam Abdul-Rahman Alawneh (University of Sharjah, United Arab Emirates)

  [1571086231]

Parallel session 17 (online): Emerging Trends in Data Science Theory and Multidisciplinary Applications

- ***Flying Najm: Drone-Based System for Accident Reporting***
  Reem Almuhanna (Shaqra University, Saudi Arabia); Nouf Altmami (Shaqra University, Saudi Arabia); Haifa Alduaij (Shaqra University, Saudi Arabia); Maha Alhafy (Shaqra University, Saudi Arabia)

  [1571044477]
- ***Technical Document Query System Using Transformer Model-Based Machine Reading Comprehension***
  Amit Kumar (AU Small Finance Bank Limited, India); Friska Natalia (Universitas Multimedia Nusantara, Indonesia); Sud Sudirman (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

  [1571073250]
- ***Deep Learning Approach for Classifying Date Fruits Using YOLO: A Comparative Analysis***
  Nada Alharbi (Taibah University, Saudi Arabia); Liyakathunisa Syed (Taibah University, Saudi Arabia); Samah Ahmed Taha (Taibah University,

Parallel session 18 (online): Deep Learning Techniques and Applications

- ***Revealing the Unseen: An Insightful Survey on Explainable AI for Deepfake Face Detection***
  Sarah Alotaibi (King Saud University & Riyadh, Saudi Arabia)

  [1571041847]
- ***Stereo Image Super Resolution Reinforced by Non-Local Means Denoising (NLMD) Algorithm***
  Ali Salim Rasheed (University of Information Technology and Communications, Iraq & Research Groups in Intelligent Machines, National Engineering School of Sfax (ENIS), Tunisia); Marwa Jabberi (ISITCom & REsearch Groups in Intelligent Machines, Tunisia); Tarek M. Hamdani (REGIM-Lab.: REsearch Groups in Intelligent Machines, National Engineering School of Sfax (ENIS)., Tunisia); Adel M. Alimi (REGIM, University of Sfax, National School of Engineers, Tunisia)

  [1571045907]
- ***Generative AI and Deep Learning Based Method Detecting Purchasers From Missing Data Social Media***
  Feriel Gammoudi (University of Monastir & MARS Research Laboratory LR17ES05, Tunisia);

Saudi Arabia); Bashayr Alsarrani (Taibah University, Saudi Arabia)

[1571075632]

- ***Enhancing Pedestrian Pose Detection Through YOLO Deep Learning Techniques***
  Reem Sulaiman Alruwaythi (Taibah University, Saudi Arabia); Thekra Abdulaziz Alruwaili (Taibah University, Saudi Arabia); Raud Alsehli (University of Testing, Saudi Arabia); Liyakathunisa Ansari (Taibah University, Saudi Arabia)

[1571075837]

- ***Classification of Date Fruits Into Genetic Varieties Using Image Analysis***
  Amani F Aloufi III (Taibah University, Saudi Arabia); Salma Alradadi (Author, Saudi Arabia); Nada Alharbi (Taibah University, Saudi Arabia); Liyakathunisa Syed (Taibah University, Saudi Arabia)

[1571075906]

- ***The Development of Individualized Assignment Generator***
  Andrew V. Danilov (Kazan Federal University, Russia); Rinata Zaripova (Kazan Federal University, Russia); Leila Salekhova (Kazan Federal University, Russia); Timur R. Fazliakhmetov (Kazan Federal University, Russia)

[1571078134]

Parallel session 19 (online): Deep Learning Techniques and Applications

- ***Enhancing AWS DeepRacer Performance: A Study on Reward Functions, Action Spaces, and Hyperparameter Tuning***
  Mayur Madnani (Liverpool John Moores University, United Kingdom (Great Britain))

[1571080241]

- ***Deep Learning Algorithms in Aircraft Detection and Classification: An Analytical Survey***
  Noora Alkharji (University of Sharjah, United Arab Emirates); Hessa Almazrouei (University of Sharjah, United Arab Emirates); Shaikha Alzaabi (University of Sharjah, United Arab Emirates); Ali Bou Nassif (University of Sharjah, United Arab Emirates); Mariame Yasser Elsalhy (University of Sharjah, United Arab Emirates); Manar Abu Talib (University of Sharjah, United Arab Emirates)

Mohamed Nazih Omri (University of Sousse, Tunisia)

[1571046451]

- ***Active Vibration Control of a Smart Structure Using Neural Network***
  Ahmed Abdulrahman Mohammed (King Fahd University of Petroleum and M, Saudi Arabia); Abdulwahid A. Saif (King Fahd University of Petroleum & Minerals, Saudi Arabia); Fouad Al-Sunni (Saudi Arabia); Sami El Ferik (King Fahd University of Petroleum and Minerals, Saudi Arabia)

[1571052529]

- ***Improving Fake News Detection With Adversarial Recurrent Neural Network***
  Dhafar Hamed Abd (University of Anbar, Iraq); Maysoon Ahmed Abbas (Sfax, Tunisia); Mondher Frikha (University of Sfax, Lebanon); Adel M. Alimi (REGIM, University of Sfax, National School of Engineers, Tunisia); Mohammed Fadhil Mahdi (Al-Mansour University College, Iraq)

[1571070705]

- ***Role of Deep Learning Models in Intelligent Classification of Various Date Fruit Bunches***
  Shorouk Ramadan (Abu Dhabi University, United Arab Emirates, United Arab Emirates); Zainab Abuowda (Abu Dhabi University, United Arab Emirates); Nour Salam (Abu Dhabi University, United Arab Emirates); Taimur Hassan (Abu Dhabi University, United Arab Emirates); Mohammed A. Ghazal (Abu Dhabi University, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Abir Jaafar Hussain (University of Sharjah, United Arab Emirates); Jawad Yousaf (Abu Dhabi University, United Arab Emirates)

[1571078567]

- ***Deep Learning-Based Stability Prediction for Electrical Grids: A Data-Driven Approach***
  Ali Al-Ataby (University of Liverpool, United Kingdom (Great Britain)); Hussain Attia (American University of Ras Al Khaimah, United Arab Emirates)

- ***Saliency Prediction Model Using an Enhanced Convolutional Neural Network***
  Dilip M Nair (Independent Researcher, United Kingdom (Great Britain)); Raghad Alshabandar (Advisory Office for Scientific, Iraq)

- ***Artificial Intelligence and Advanced Technologies for Managing Iraqi Water Resources***
  Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain)); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

- ***Attitudes and Perceptions Towards the Safety and Efficacy of Commonly Used Cosmetic and Lifestyle Products: Social Media Analysis***
  Shoug Muqbel Alshammari (King Faisal University, United Kingdom (Great Britain)); Badriah Eid Alsaif (King Faisal University, Saudi Arabia); Abdullah Al Hamid (King Faisal University, Saudi Arabia)

- ***Machine Learning Techniques Reveal the Most Effective and Influencing Gender-Based Scan Acquisition Parameters That Contribute to Patient Dose Undergoing Enhanced CT Abdomen and Pelvis Examinations***
  Entesar Dalah (Dubai Health, United Arab Emirates); Meliz Yuvalı (Near East University, Cyprus); Dilber Uzun Ozsahin (University of Sharjah, Sharjah, UAE & Near East University, Nicosia, North Cyprus, United Arab Emirates)

- ***Comparing Surface-Enhanced Raman Spectroscopy and Raman Microscopy With Machine Learning for the Authentication of Covid-19 Vaccines***
  Megan Watson ((Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Jason Birkett (Liverpool John Moores University, United Kingdom (Great Britain)), Iftikhar Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Matthew L Harper (Liverpool John Moores University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain)).