DESE

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PROGRAMME

16th INTERNATIONAL CONFERENCE ON DEVELOPMENTS in eSYSTEMS ENGINEERING

2023

Istanbul, Turkey
18th - 20th December

eSystems Engineering Society

IEEE Türkiye Section

Programme at a Glance

DAY 1 - Monday (18th December 2023)		
Time (Turkey time)	**Event**	
8:30 - 9:00	Registration	
9:00 - 10:30	Welcome Speech & Opening Ceremony ***2nd floor auditorium*** - Names to be confirmed.	
10:30 – 11:20	Invited Industrial Speech - Artificial Intelligence and Ethics in Medicine - Dr Yasser Abdullah (Barking, Havering and Redbridge University Hospitals NHS Trust, UK) (on-site) ***2nd floor auditorium***	
11:20 -11:35	Coffee Break	
11:35 - 12:30	Keynote Speech 1 – Theory Behind Probabilistics - Dr Amer Aladhadh (Iraq Prime Minister's Office, Baghdad, Iraq) (on-site), ***2nd floor auditorium***	
12:30 - 13:30	Lunch Break	
13:30 – 14:30	Parallel Session 1 (on-site) ***2nd floor auditorium*** Session Chair: Dr. Khawla Al-Najjar Session Co-chair: Dr. Mohammed Yahaya	Parallel Session 2 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr Touraj Ehtezazi Session Co-chair: Dr. Athraa H. Hassoon Google Meet joining info Video call link: https://meet.google.com/rfh-zoyd-mkj
	Parallel Session 3 (on-site) ***7th floor Meeting Room*** Session Chair: Dr. Wasiq Khan Session Co-chair: Assist. Prof. Dr. Erdem TEZCAN, Dr. Ahmed Jasim Mohammed	Parallel Session 4 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof. Jamila Mustafina Session Co-chair: Dr. Lamiaa Fingan Nashi Al-Maliki Google Meet joining info Video call link: https://meet.google.com/dki-obhd-kki
14:30 - 14:45	Coffee Break	
14:45 - 15:45	Parallel Session 5 (on-site) ***2nd floor auditorium*** Session Chair: Dr. Sohaib Majzoub Session Co-chair: Assoc. Prof. Dr. Esengül SALTÜRK, Dr. Ali Abdulrahman Khaleel	Parallel Session 6 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Thomas Coombs Session Co-chair: Asst. Prof.Wafaa Abd Al wahed Jaheel Google Meet joining info Video call link: https://meet.google.com/jgg-mpjv-tip
	Parallel Session 7 (on-site) ***7th floor Meeting Room*** Session Chair: Assist. Prof. Dr. Mutlu YILMAZ, Dr. Hoshang Kolivand Session Co-chair: Assist. Prof. Dr. Mutlu YILMAZ, Dr. Zuhair Jaber Mushref	Parallel Session 8 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof. Jamila Mustafina Session Co-chair: Dr. Ahmed Chyad Ali Google Meet joining info Video call link: https://meet.google.com/oob-hhxn-rur
	End of day 1	
	Gala Dinner	

*X-lab 3rd floor is for attendees joining on-site. The Google Meet video will be

DAY 2 - Tuesday (19th December 2023)		
Time (Turkey time)	**Event**	
8:00 - 9:00	Registration	
9:00 – 10:00	Keynote Speech 2 – Science, Engineering, Artificial Intelligence and Machine Learning - Prof. Dr. Cagatay Uluisik (ATLAS University, Istanbul, Turkey) (on-site) ***2nd floor auditorium***	
10:00 – 10:15	Coffee Break	
10:15 - 12:15	Discussion Panel 1 – Artificial Intelligence and the Future of Health Sector- (on-site) ***2nd floor auditorium***	Parallel Session 26 (online & On-site) 10:15AM TO 11:15AM ***Google Meet/X-lab 3rd floor**** Session Chair: Dr Muhammad Ateeq Session Co-chair: Aris C. Alexoulis Chrysovergis (Manchester Metropolitan University, United Kingdom (Great Britain), and Omid Teimoori (Didactic Services Ltd., United Kingdom (Great Britain)). Google Meet joining info Video call link: https://meet.google.com/tbv-bcgs-nsz
		Parallel Session 9 (online) 10:15AM TO 11:15AM ***Google Meet/X-lab 3rd floor**** Session Chair: Dr Touraj Ehtezazi Session Co-chair: Dr. Ali Majeed Allami Google Meet joining info Video call link: https://meet.google.com/yjf-jynb-fdk
		Parallel Session 10 (online) 10:15AM TO 11:15AM ***7th floor Meeting Room**** Session Chair: Prof Dr Risala Hussein Allami Session Co-chair: Wasaq Jaber Naeem Google Meet joining info Video call link: https://meet.google.com/bxa-kcfi-gqf
12:15 to 13:15	Lunch Break	
13:15 – 14:15	Keynote Speech 3 -The Use of Machine Learning to Sports Science - Professor Yanguo Jing (Leeds Trinity University, Leeds, UK) (online) ***Zoom/X-lab 3rd floor**** Please click the link below to join the webinar: https://us06web.zoom.us/j/85630617232?pwd=KFwwZZInI7qDnu06pvjn3hQDFHOaIMk2.16NV7pjOTrAbPkXZ Passcode: dese2023 Webinar ID: 856 3061 7232 Passcode: 25057276	
14:15-15:15	Parallel Session 11 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Asst. Prof.Mona Najah Al-Terehi Session Co-chair: Dr. Zuhair Jaber Mushref Google Meet joining info Video call link: https://meet.google.com/xqj-yxxf-yhi	
	Parallel Session 12 (on-site) ***2nd floor auditorium*** Session Chair: Dr. Eqab Almajali Session Co-chair: Dr. Raghad Alshabandar	Parallel Session 13 (online) ***Google Meet/7th floor Meeting Room**** Session Chair: Dr. Venus Suleiman Akef Session Co-chair: Dr. Ahmed Subhi Abdalkafor Google Meet joining info Video call link: https://meet.google.com/hdg-twgn-vbw
15:15 - 15:30	Coffee Break	
15:30 - 16:30	Parallel Session 14 (on-site) ***2nd floor auditorium*** Session Chair: Prof. Abir Hussain Session Co-chair: Assist. Prof. Dr. Mutlu YILMAZ, Dr. Amar Hussain	Parallel Session 15 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof. Dr. Ameer Abdulrahman Hilal Session Co-chair: Dr. Yousif Ismael Mohammed

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		Google Meet joining info Video call link: https://meet.google.com/hbp-gyaz-mfs
	Parallel Session 16 (online) ***Google Meet/7th floor Meeting Room**** Session Chair: Dr. Venus Suleiman Akef Session Co-chair: Dr. Mahmooud Khaleel Awsaj Google Meet joining info Video call link: https://meet.google.com/qns-qdee-uyy	Parallel Session 17 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Sulaf Assi Session Co-chair: Dr. Mohanad Abdulsalam Younus Google Meet joining info Video call link: https://meet.google.com/xjg-drfn-knc
	End of day 2	

*X-lab 3rd floor is for attendees joining on-site. The Google Meet video will be

DAY 3 - Wednesday (20th December 2023)		
Time (Turkey time)	**Event**	
9:00 - 9:30	Registration	
9:30 - 12:50	Discussion Panel 2 – Ethical Artificial Intelligence- (on-site) ***2nd floor auditorium***	Parallel Session 18 (online) – 9:30AM TO 10:30AM **Google Meet/X-lab 3rd floor*** Session Chair: Prof. Dr. Mafaz Alanezi Session Co-chair: Asso.Prof.Dr. Basim Mahmood Google Meet joining info Video call link: https://meet.google.com/ddw-ngse-zoj
		Parallel Session 19 (online) – 10:40AM TO 11:40AM ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Ali Amer Ahmed Session Co-chair: Dr. Sadeq Oleiwi Sulaiman Google Meet joining info Video call link: https://meet.google.com/mvc-yizr-wrr
		Parallel Session 20 (online) – 11:50AM TO 12:50AM ***Google Meet/X-lab 3rd floor**** Session Chair: Prof. Jamila Mustafina Session Co-chair: Dr. Sohaib Majzoub Google Meet joining info Video call link: https://meet.google.com/htd-scth-pei
12:50 – 13:50	Lunch Break	
13:50 - 14:50	Parallel Session 21 (online) ***Google Meet/7th floor Meeting Room**** Session Chair: Dr. Raghad Alshabandar Session Co-chair: Dr. Sohaib Majzoub Google Meet joining info Video call link: https://meet.google.com/jmk-dqee-tpv	Parallel Session 22 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Walaa Bajnaid Session Co-chair: Dr.Aitizaz Ali Google Meet joining info Video call link: https://meet.google.com/ccs-ehqd-qdn
	Parallel Session 23 (online) ***Google Meet/7th floor Meeting Room**** Session Chair: Dr. Hoshang Kolivand Session Co-chair: Dr. Dhafar Hamed Abd Google Meet joining info Video call link: https://meet.google.com/yxw-waeg-vto	Parallel Session 24 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof Dr Mushtak Talib Salih Nada Al-Ouqaili Session Co-chair: Dr Ahmed J. Aljaaf Google Meet joining info Video call link: https://meet.google.com/wki-pyjw-kwn
	Parallel Session 25 (online) ***Google Meet/7th floor Meeting Room**** Session Chair: Dr Hiba Alsmadi Session Co-chair: Dr Ala Alkafri Google Meet joining info Video call link: https://meet.google.com/oon-qtjv-eiy	Parallel Session 27 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof Kasim Mousa Al-Aubidy, & Prof Mohamed A. Deriche Session Co-chair: Prof Faouzi Derbel Google Meet joining info Video call link: https://meet.google.com/nix-ioik-ofq
14:50-15:00	Coffee Break	
15:00 - 16:00	Parallel Session 28 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Prof Dr Mushtak Talib Salih Nada Al-Ouqaili Session Co-chair: Dr Ahmed J. Aljaaf	Parallel Session 29 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Ahmed Jasim Mohammed Session Co-chair: Dr. Ali Abdulrahman Khaleel

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	Google Meet joining info Video call link: https://meet.google.com/buz-bket-okw	Google Meet joining info Video call link: https://meet.google.com/emh-jror-ube
	Parallel Session 30 (online) **Google Meet/X-lab 3rd floor*** Session Chair: Dr. Kaustubh V. Sakhare, Session Co-chair: TBC Google Meet joining info Video call link: https://meet.google.com/xbv-ndrb-acb	Parallel Session 31 (online) ***Google Meet/X-lab 3rd floor**** Session Chair: Dr. Ameer Mohammed Khalaf Session Co-chair: Dr. Ahmed Subhi Abdalkafor Google Meet joining info Video call link: https://meet.google.com/qdn-yukn-kzk
16:00 -16:10	Closing of the Conference, award ceremony and DeSE 2023 review	

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DeSE 2023 OPENING CERMONY

Location: ATLAS University 2nd floor auditorium

Date: 18th of December 2023

Time: 9:00 – 12:30 am

Facilitator: Dr Sulaf Assi

Ceremony opening

9:00 – 9:40 Conference opening

- **Prof Dr Engin GÜLAL**, ATLAS University Rector, Istanbul, Türkiye
- **Prof Dr Ahmed Algaban**, University of Technology, Baghdad, Iraq
- **Prof Dr Abir Husain**, University of Sharjah, Sharjah, UAE/eSystems Engineering Society, UK

9:40 – 10:20 Innovation in Industry 4.0: Education, Engineering, Medicine and the Environment

- **Prof Dr Durmuş Tayyar ŞEN**, Dean of Faculty of Engineering and Natural Sciences, ATLAS University, Istanbul, Türkiye
- **Dr Oday Ahmed**, Iraqi's Ministry of Higher Education, Iraq
- **Prof Yaseen Al-Hajjar**, Al-Noor University, Mosul, Iraq
- **Prof Maitham Ghaly Yousif**, International Society of Health Education, USA

10:20 – 11:10 ***Keynote speech***- Artificial Intelligence and Ethics in Medicine

- Dr Yasser Abdullah, National Health Service, London, UK
  Introduced by: *Dr. Mohammed Yahya Al Balwa*

11:10 – 11:15 ***Prize Giving***- ATLAS University, Istanbul, Türkiye

11:15 – 11:40 ***Coffee break***

11:40 – 12:30 ***Keynote speech***-Theory behind Probabilistics

- Dr Amer Aladhadh, Iraqi's Prime Minister's Office, Iraq
  Introduced by: *Prof Dr Durmuş Tayyar ŞEN*

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ATLAS UNIVERSITY

TECHNICAL PROGRAM-MONDAY, 18TH DECEMBER 2023

Keynote lecture 1: Artificial Intelligence and Ethics in Medicine,
Dr Yasser Abdullah *(Barking, Havering and Redbridge University Hospitals NHS Trust, UK)*

Keynote lecture 2: Theory behind probabilistic,
Dr. Amer Aladhadh, *Iraqi Minister's Office, Baghdad, Iraq*

Parallel session 1 (on-site):
e-System Engineering (Main Track) & Intelligent Engineering Systems and Applied Physics Sciences

- ***Efficient FBMC-OQAM Channel Equalization Through Pruned DFT*****,** Vian Kasim (Al-Rafidain University College, Iraq); Ali N. AlShuwaili (UOITC, USA); Thamer M. Jamel (University of Technology, Iraq)
  [1570945011]
- ***Regression for Forecasting Meat Production Using Milk Data*****,** Manjunath B Prasad (Liverpool John Moores University & Edward Jones, USA)
  [1570945475]
- ***Design and Implement Services Robot-Based on Intelligent Controller With IoT Techniques*****,** Mohanad Abdulsalam Alaskari (University of Anbar, Iraq); Yousif Ismail Al Mashhadany (University of Anbar, Iraq)
  [1570957879]
- ***Analysis of High Performance of Separately Excited DC Motor Speed Control Based on Chopper Circuit,*** Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Settar S Keream (University of Anbar, Iraq); Ali Ahmed Alrawi (University of Anbar, Iraq, Iraq)
  [1570959567]

- ***Fracture Detection Using A Wideband Wearable Monopole Antenna Based on Microwave Imaging,*** **Fatima-ezzahra Zerrad (University of Sharjah, United Arab Emirates);** Eqab Almajali (University of Sharjah, United Arab Emirates); Mohamed Taouzari (Hassan First University of Settat, Morocco); Abir Hussain (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates)
  [1570965053]

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

- ***Advanced Gender Detection Using Deep Learning Algorithms Through Hand X-Ray Images*****,** Abdullah Ali Jabber (Al-Furat Al-Awsat Technical University & Engineering Technical College Najaf, Iraq); Ali Kareem Abbas (Al-Furat Al-Awsat Technical University & Engineering Technical College-Najaf, Iraq); Zahraa Hashim (Al-Mustaqbal University, Iraq); Rami Qays Malik (Al-Mustaqbal University College, Iraq); Hayder Alghanimi, Hr (Hilla University College & Babylon, Iraq); Ghada Ali Shadeed (Hilla University College, Iraq)
  [1570938155]
- ***Single and Multilevel Offshore Wind Speed Prediction - A Comparison of LSTM, GRU and BiDirectional*****,** Hillol Biswas (Wapcos Limited, India, India)
  [1570942943]
- ***Evaluate the Image Captioning Technique Using State-Of-The-Art, Attention and Non-Attention Models to Generate Human Like Captions*****,** Nishant Kumar Verma (Liverpool John Moore University, India); Prakash M. Kene (Associate Professor, India)
  [1570944336]
- ***Identifying Land Features From Satellite Images Using Deep Learning*****,** Kiran Arakalgudu Nagaraju (NONE, India); Kuldeep Chaurasia (Benett University, India)
  [1570945725]
- ***Potholes Detection Using Optimal Object Detection Model in Real-Time for Different Use Cases,*** Imam U Ahamed (Liverpool John Moores University & Banglalink Digital Solutions Ltd., Bangladesh)
  [1570945781]

Parallel session 3 (on-site): Applied Artificial Intelligence for Industrial Innovation: Current State of the art and New Directions

- ***A Non-Restraining Sheep Activity Detection and Surveillance Using Deep Machine Learning*****,** Muhammad Yaseen Ayub (COMSATS University Islamabad, Attock Campus, Pakistan); Abir Hussain (University of Sharjah, United Arab Emirates); Muhammad Furqan Ul Hassan (University of Hertfordshire, United Kingdom (Great Britain)); Bilal Khan (California State University San Bernardino, USA); Farman Ali Khan (COMSATS University Islamabad, Attock Campus, Pakistan); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain))
  [1570951934]
- ***Stationary Vehicles Detection on Smart Highways and Roads Using Spatio-Temporal Tracking*****,** Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Jessica Kelly (Liverpool John Moores University, United Kingdom (Great Britain)); Ala Al Kafri (Teesside University, United Kingdom (Great Britain)); Natasa Kleanthous (Khalifa University, United Arab Emirates); Umar Khayam (COMSATS University, Pakistan); Bilal Khan (California State University San Bernardino, USA)
  [1570960624]
- ***Smart Medical Pills Dispenser*****,** Khawla Alnajjar (University of Sharjah, United Arab Emirates); Abdulaziz Altamimi (University of Sharjah, United Arab Emirates); Khalifa Altamimi (University of Sharjah, United Arab Emirates); Ahmed Alshehhi (University of Sharjah, United Arab Emirates); Sam Ansari (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates)
  [1570963397]
- ***Optimizing Power Controller Performance Using Genetic Algorithm: A Step-By-Step Approach for Finding Optimal Values and Improving Control Performance*****,** Wassan Adnan Hashim (Alqalam University College, Iraq); Jawad Hamad Hameed (Lecture, Iraq); Reem Jafar (Cihan University- Erbil, Iraq); Marwah Al-Obaidi (National Engineering School of Sfax (ENIS), Jordan)
  [1570966746]

Parallel session 4 (online): Applied Artificial Intelligence for Industrial Innovation: Current State of the art and New Directions

- ***Gas Turbine – CO & NOx Emission Data Analysis With Predictive Modelling Using ML/AI Approaches***, Ankit Singh Dalal (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia); Manoj Jayabalan (Liverpool John Moores University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1570973074]
- ***Sentiment Analysis for Assessing Customer Satisfaction in Chatbot Service Encounters***, Seyed Ebrahim Hosseini (Whitecliffe, New Zealand); Shahbaz Pervez (Whitecliffe, New Zealand)
  [1570976463]
- ***Automation of Financial Capital Supply Chain Optimization Industry Based on Time Series LSTM Algorithm***, Kangyi Li (Ulink College of Shanghai, China); Zhou Yang (Shanghai University, USA)
  [1570976796]
- ***A Deep Learning Approach for Liver Segmentation and Lesion Detection in Medical Images Using U-Net Segmentation Model***, Kaushik Mahida (California State University San Bernardino, USA); Daniel Jin (Loma Linda University Medical Center, USA); Bilal Khan (California State University San Bernardino, USA); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Khalil Dajani (California State University San Bernardino, USA); Jennifer K Jin (California State University, San Bernardino, USA)
  [1570951229]
- ***GIS and BIM as Data Sources for Sustainable Heritage Building Retrofit in Basrah City-Iraq***, Ammar Jassim Dakhel (University of Basrah, Iraq); Hamid H Samir (University of Basrah, Iraq)
  [1570959565]

- ***Photogrammetry-Driven HBIM Approach for Mimar Sinan Fine Arts University Campus*****,** Ridha Farajalah (Mimar Sinan Fine Art University, Turkey); Tigin Töre (Mimar Sinan Fine Arts University, Turkey)
  [1570970682]

Parallel session 5 (on-site): Artificial Intelligence for Improving Patient and Medical Safety
&
Intelligent Engineering Systems and Applied Physics Sciences

- ***Using Electrical Impedance Tomography and Machine Learning for Breast Cancer Detection*****, Basma Alsaid (University of Sharjah, United Arab Emirates);** Romaissa Berrim (University of Sharjah, United Arab Emirates); Tracy Sarofil (University of Sharjah, United Arab Emirates); Sohaib Majzoub (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates)
  [1570962248]
- ***High Performance of Predict Epileptic Seizures System Based on Machine Learning With IoT*****,** Ali Ahmed Alrawi (University of Anbar, Iraq, Iraq); Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Settar S Keream (University of Anbar, Iraq)
  [1570965287]
- ***Artificial Neural Network Model for Forecasting Haditha Reservoir Inflow in the West of Iraq*****,** Othman Abdulhameed (University of Anbar & Upper Euphrates Basin Development Center, Iraq); Sadeq Oleiwi Sulaiman (University of Anbar & College of Engineering, Iraq); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))
  [1570967597]
- ***Comorbidity Diseases Diagnosis Using Machine Learning Methods and Chi-Square Feature Selection Technique*****,** Dheyauldeen Mahmood Mukhlif (OBU, Iraq)
  [1570968003]
- ***Cloud-IoT Application for Scene Understanding in Assisted Living: Unleashing the Potential of Image Captioning and Large Language Model (ChatGPT)*****,** Deema Abdal Hafeth (University of Lincoln, United Kingdom (Great Britain)); Gokul Lal (University of Lincoln, United Kingdom (Great Britain)); Mohammed Al-khafajiy (University of Lincoln, United Kingdom (Great Britain)); Thar Baker (University of Sharjah, United Arab Emirates); Stefanos Kollias (University of Lincoln/NTUA, United Kingdom (Great Britain))
  [1570972064]

Parallel session 6 (online): e-System Engineering (Main Track)

- ***Effect of a Novel Flow Field Design on PEM Fuel Cell Performance***, Sadiq T. Bunyan (Mustansiriyah University, Iraq); Hayder Abed Dhahad (UOT, Iraq); Dhamyaa S. Khudhur (Mustansiriyah University, Iraq); Talal Yusaf (Central Queensland University, Australia)
  [1570947020]
- ***Enabling Auto-Heal Micro-Service Framework (AHMF) Based on APM Audit and Proactive Fault Discovery in Cloud Monitoring***, Sarangapani Varadharajan (Liverpool John Moores University, Singapore); Lily M Florence (Adhiyamaan College of Engineering, India)
  [1570952444]
- ***An in Depth Review of Deep Facial Expression Recognition Obstacles, Utilizations, and Prospective Direct***, Raed Ibrahim Khalil, Sr (University of Almustaniriya & University of Ninevah, Iraq); Abbas Hussien Miry (Mustansiriyah University, Iraq); Tariq Mohammed Salman (Mustansiriyah University & College of Engineering, Iraq)
  [1570955903]
- ***Credit Card Fraud Detection Using Machine Learning***, Sanjay Bharadwaj (Liverpool John Moores University, India)
  [1570958008]
- ***Image Recognition Model Integration in Unity and CNN Tester App for Image Recognition***, Simen Nesse Wiik (Norway); Akibul Haque (East West University, Bangladesh)
  [1570952072]

Parallel session 7 (on-site): Emerging Trends in Data Science Theory and Multidisciplinary Applications)

- ***Implementing and Enhancing Monitoring System on the Edge of a Smart Factory: A Case Study With FESTO's Cyber-Physical System*****,** Omid Teimoori (Didactic Services Ltd., United Kingdom (Great Britain)); Muhammad Ateeq (Xi'an Jiaotong-Liverpool University & University of Liverpool - Honorary Association, China); Aris C. Alexoulis Chrysovergis (Manchester Metropolitan University, United Kingdom (Great Britain))

  [1570945075]
- ***Using NLP Tools to Improve Pre-Service Teachers' English Skills to Cover the Language Demands of Math CLIL Course,*** Andrew V. Danilov (Kazan Federal University & Acme Corporation, Russia); Rinata Zaripova (Kazan Federal University, Russia); Leila Salekhova (Kazan Federal University, Russia); Nailya Batrova (Kazan Federal University & KFU, Russia); Marina Lukoyanova (Kazan Federal University, Russia); Güler Çavuşoğlu (Çanakkale Onsekiz Mart University, Turkey)

  [1570945462]
- ***Potential Factors on Blockchain Adoption in Malaysian Public Sector Auditing*****,** Nik Haslina binti Nik Man (Universiti Kebangsaan Malaysia, Malaysia); Dahlia Fernandez (Universiti Kebangsaan Malaysia, Malaysia)

  [1570956080]
- ***E-Learning Technology Impact on the Development and Sustainability of Training Skills of Anbar University Graduates*****,** Ahmed Subhi Abdalkafor (University of Anbar, Iraq); Zuhair Jaber Mushref (University of Anbar, Iraq); Ameer Mohammed Khalaf (University Of Anbar, Iraq, Iraq)

  [1570961432]
- ***A Review of Sign Language Systems*****,** Marzieh Moradi (Kings Leadership Academy Liverpool, United Kingdom (Great Britain)); Deepika Dhanabalan Kannan (LJMU, United Kingdom (Great Britain)); Shiva Asadianfam (Islamic Azad University & Qom University of Technology, Iran); Omar Aldhaibani (Liverpool John Moores University, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain))

  [1570964743]

- ***Optimizing Real-Time Decision-Making in Sensor Networks*****,** Yeşim Yiğitbaşı (Kadir Has University, Turkey); Fabio Stroppa (Sant'Anna - Pisa, Italy); Leonardo Badia (Università degli Studi di Padova, Italy)

  [1570976470]

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

- ***Architecture Design of B5G and 6G Millimeter-Wave Radio Access Network: Using Wireless Communications to Increase Coverage, Capacity and Performance***, Abdulmajeed Al-Jumaily (Universidad Carlos III de Madrid & Universiti Putra Malaysia UPM, Spain); Saif H. Alrubaee (University of Technology, Iraq); Víctor P. Gil Jiménez (University Carlos III of Madrid, Spain); Ali M. Al-Saegh (Middle Technical University, Iraq); Ahmed A. Mahmood (Universidad Carlos III de Madrid, Spain); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))

  [1570959247]
- ***AI System for Aerial Segmentation of Agricultural Farmland and Environmental Landscapes***, Laxmi Sahu (Liverpool Johan Moores University, India)

  [1570959851]
- ***Microsimulation Approach for Reducing Gas Emissions of Vehicles at Unsignalized Intersections***, Majid Hameed Hammad (University of Anbar, Iraq); Hameed A. Mohammed (University of Anbar, Iraq)

  [1570960091]
- ***Unveiling the Reliability of ChatGPT Answers in the Biomedical Realm: An Assessment in the Context of Epilepsy***, Hagar Elbatanouny (MALIHA, United Arab Emirates); Tarek Khater (Sharjah, United Arab Emirates); Sam Ansari (University of Sharjah, United Arab Emirates); Bilal Khan (University of California, USA); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Eqab Almajali (University of Sharjah, United Arab Emirates); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Abir Hussain (University of Sharjah, United Arab Emirates)

  [1570960742]
- ***Improving the DDoS Protection and A.I. Systems Using Wireshark***, Darshan Deshpande (Liverpool John Moores University, India)

  [1570962405]

TECHNICAL PROGRAM-TUESDAY, 19TH DECEMBER 2023

Keynote lecture 1: Science, Engineering, Artificial Intelligence and Machine Learning
Prof. Dr. Cagatay Uluisik, *ATLAS University, Istanbul, Turkey*

Discussion Panel 1: AI and the Future of Health Sector
Engineering and Natural Science Faculty, ATLAS University, *Turkey*

Keynote lecture 3: The use of machine learning to sports sciences.
Prof. Yanguo Jing, *Leeds Trinity University, Leeds, UK*

Parallel sessions

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

- ***Arabic Fake News Detection Using Ensemble Technique*,** Dhafar Hamed Abd (University of Anbar, Iraq); Mohammed Fadhil Mahdi (Al-Mansour University College, Iraq); Mustafa Abdalrassual Jassim (Al-Muthanna University & University of Monastir, Iraq); Abir Hussain (University of Sharjah, United Arab Emirates) [1570962730]
- ***Machine Learning Algorithms for Human Smoking Behavior Detection Using Speech*,** Ibrahim Khudhur Zaal (University of Mosul & College of Computer Science and Mathematics, Iraq); Yusra Faisal Mohammad (University of Mosul, Iraq) [1570964264]
- ***Real-Time Masked Face Recognition in the Wild With Few Shots*,** Siva Kumar Gunturi (Liverpool John Moores University, India); Mamatha Alugubelly (Upgrad Education Pvt, Ltd., India); Manoj Jayabalan (Liverpool John Moores University, United Kingdom (Great Britain)); Sanchit Aggarwal (Liverpool John Morees University, India) [1570964772]
- ***Predicting Themes of Tweets on Earthquakes in Turkey & Syria for Real-Time Classification*,** Subhanan Mandal (Liverpool John Moores University, United Kingdom (Great Britain)); Mamatha Alugubelly (Upgrad Education Pvt, Ltd., India); Manoj Jayabalan (Liverpool John Moores University, United Kingdom (Great Britain)) [1570965407]

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

- ***Safer Navigation: The AI-Powered Smart Cane for the Visually Impaired*,** Abdalla Said Gad (Abu Dhabi University, United Arab Emirates); Bara Fteiha (Abu Dhabi University, United Arab Emirates); Jawaher Alatawi (Abu Dhabi University, United Arab Emirates); Mahra Mohammed (Abu Dhabi University, United Arab Emirates); Mahra Almansoori (Abu Dhabi University, United Arab Emirates); Mohammed A. Ghazal (Abu Dhabi University, United Arab Emirates); Jawad Yousaf (Abu Dhabi University, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates) [1570965613]
- ***Develop A Software Engineering System for Models-To Model Based Path Integration Testing*,** Sakaina Khalil Izat (University of Mousl, Iraq); Nada Nimat Saleem (University of Mosul & College of Computer Science and Mathematics, Iraq) [1570966669]
- ***Research and Implementation of Handwritten Chinese Character Recognition Based on Deep Learning Algorithm*,** Zhiying Wang (Teesside University, China); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia); Zia Ush Shamszaman (Teesside University, United Kingdom (Great Britain)) [1570966698]

- ***Light Weight Real-Time Burglary Detection and Inspection in Low Light Surveillance Videos*****,** Shobhit Bijoor (Liverpool John Moores University, India); Mamatha Alugubelly (Upgrad Education Pvt, Ltd., India); Sanchit Aggarwal (Liverpool John Morees University, India) [1570965475]

- ***Enhancing Stock Price Forecasting: Integrating Supply Chain Factors Into LSTM Models and Comparative Performance Analysis*****,** Minggao Zhou (Teesside University, China); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Zia Ush Shamszaman (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia) [1570966699]
- ***Utilizing Ensemble Approach for Predictive Customer Clustering Analysis With Unsupervised Cluster Labeling*****,** Micheal Atunwa (Teesside University, United Kingdom (Great Britain)); Zia Ush Shamszaman (Teesside University, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia) [1570966700]

Parallel session 11 (online): e-System Engineering (Main Track)

- ***Job-Matching Chatbots Powered by T5: A Comparative Performance Study With GPT-2*****,** Saba Soltanmohammadi (Teesside University, United Kingdom (Great Britain)); Zia Ush Shamszaman (Teesside University, United Kingdom (Great Britain)); Shatha Rashed Ghareeb (Teesside University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia) [1570966701]
- ***Anomaly Detection in Smart Homes Based on Kitchen Activities and Machine Learning*****,** Sara Ali Alnaqbi (University of Sharjah, United Arab Emirates); Hissam Tawfik (University of Sharjah, United Arab Emirates) [1570968157]
- ***Optimizing Spectrum Prediction in Cognitive Radio: Genetic Algorithm-Enhanced Neural Networks and Radial Basis Functions*****, Sam Ansari (University of Sharjah, United Arab Emirates);** Antanios Kaissar (University of Sharjah, United Arab Emirates); Tarek Khater (Sharjah, United Arab Emirates); Khawla Alnajjar (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates) [1570969461]
- ***Towards a Responsive Security Operations Center for UAVs*****,** Fadhila Tlili (University of Technology Troyes & University of Sfax, France); Samiha Ayed (Université Technologique de Troyes, France); Lamia Chaari (University of Computer Science and Multimedia of Sfax &

Parallel session 12 (on-site): Deep Learning: Techniques and Applications & Smart Industrial and Biomedical Sciences Systems

- ***Performance Evaluation of SISO-OFDM Channel Equalization Utilizing Deep Learning***, Saja S Hanoon (Wasit University, Iraq); Thamer M. Jamel (University of Technology, Iraq); Hasan Khazaal (University of Wasit, Wasit, I, Iraq) [1570947068]
- ***Internet of Medical Things (IoMT) for Premature Estimate of Epileptic Seizures***, Ali Ahmed Alrawi (University of Anbar, Iraq, Iraq); Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Sameer Algburi (Al-Kitab University, Iraq) [1570949238]
- ***Predicting Medicine Adherence With Precision: An MLP-Based Approach for Personalized Healthcare***, Mahmood K. Awsaj (University of Sfax, Tunisia); Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Lamia Chaari (University of Computer Science and Multimedia of Sfax & Laboratory of Technologies for Smart Systems at Digital Research Center of Sfax (CRNS), Tunisia) [1570964789]
- ***Dynamic Heuristic Approach to Enhance the Performance of Few-Shot Meta-Learning***, Amer Mirkhan (Sakarya University, Turkey); Numan Çelebi (Sakarya University, Turkey) [1570965821]

Laboratory of Technologies for Smart Systems at Digital Research Center of Sfax (CRNS), Tunisia)
[1570977667]

Parallel session 13 (online): Advanced Technology, AI, and Historic Preservation)

- ***The Effect of AI on DNA Sequencing: An Overview of the Process Between History and Present With Ethical Analysis*****,** Anfal M. Hameed (University of Altinbas, Turkey)
[1570977783]
- ***The Effect of Memory in Shaping Virtual Heritage,*** Samaa Jumaa Al Aqbi (University of Technology & Ministry of Youth and Sports, Iraq); Ibrahim AL-Yousif (University of Technology, Iraq); Saad AL-Nuaimi (University of Diyala - Iraq, Iraq)
[1570960621]
- ***Using Laser Scanning Techniques to Study the Visual Identity of Heritage Houses Facades in Erbil City (1900-1930),*** Binyad Maruf Abdulkadir Khaznadar (Salahaddin University-Erbil, Iraq); Salahaddin Y. Baper (Salahaddin University, Iraq)
[1570962275]
- ***Dialogue in Coexistent Formation in the Temporal and Spatial Dimensions / Existing Hospitals, an Applied Case*****,** Huda Abdullateif Al taie (University of Technology - Architectural Eng. Dept, Iraq); Basim Hasan Hashim Almajidi (University of Technology, Iraq); Ahmed Hashim Hameed El-Eqapy (University of Technology, Iraq)
[1570963250]
- ***Routing Protocol Performance in Vehicular Ad Hoc Networks: An Evaluation*****,** Hamid Alasadi (IRAQ- BASRA & basra UNIV., Iraq); Hassan Abdulkhaleq Kheder (Okan Üniversitesi. Türkiye, Turkey); Didem Kivanc (University Tuzla Campus 34959 Akfirat-Tuzla / ISTANBUL, Serbia)
[1570965415]

Parallel session 14 (on-site): Bio-Inspired Robotics, Cognitive Computing, and Internet of Things into real-world applications)

- ***Grey Wolf Optimizer Algorithm to Detection Fake Profile in Facebook***, Sekkal Nawel (University Abou Bekr Belkaid Tlemcen, Algeria); Mahammed Nadir (ESI Sidi Bel Abbes Algeria, Algeria)
[1570971008]
- ***Towards Secure IoMT: Attack Detecion Using Deep Q-Learning in Heathcare Networks***, Layal I. Abu Daher (Beirut Arab University, Lebanon); May Itani (Beirut Arab University, Lebanon)
[1570978236]
- ***Towards Reliable V2X Service Using UAV-Aided Coded Content Caching***, May Itani (Beirut Arab University, Lebanon); Layal I. Abu Daher (Beirut Arab University, Lebanon)
[1570978244]
- ***Task Scheduling in IoT Cloud-Fog Environment Utilising a Hybrid Method and Firefly Algorithm***, Ahmed Abd AL-Kadem Hadi (Al-Mustaqbal University, Iraq); Mjtaba Zuhair Al-Amshawi, Am (College of Imam Alkadhum & Iku, Iraq); Mohammed Al-khafajiy (University of Lincoln, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Rusul Almurshedi (Liverpool John Moores University, United Kingdom (Great Britain)); Ahmed J. Aljaaf (Liverpool John Moores University, United Kingdom (Great Britain) & University of Anbar, Iraq)
[1570967532]

Parallel session 15 (online): Intelligent Engineering Systems and Applied Physics Sciences

- ***Study of Motion Planning of Quadcopter Under Uncertain Environment*****,** Khitam Mohammed (Basrah University, Iraq); Alaa Al-Ibadi (The University of Basrah, Iraq & University of Salford, United Kingdom (Great Britain)); Ali Aliedani (University of Basrah, Iraq)
[1570956678]

Parallel session 16 (online): Intelligent Engineering Systems and Applied Physics Sciences & Advanced Technology, AI, and Historic Preservation

- ***High Performance of Smart Refrigerator System Based on IoT Technique***, Hamid R. Alsanad (University of Anbar, Iraq); Yousif Ismail Al Mashhadany (University of Anbar, Iraq); Mohanad Abdulsalam Alaskari (University of Anbar, Iraq); Omar Khaldoon (University of Anbar, Iraq)
[1570965288]

- ***Laser-Plasma Ion Acceleration and Its Applications*****,** Ahmed S. Al-Hiti (University of Anbar, Iraq); Hiba Hassan (University of Technology, Iraq)
  [1570958844]
- ***Efficient Remote Monitoring of SO2 Emission in Industrial Plants and Laboratories*****,** Ammar Khamees Ghazzay (University of Anbar & College of Engineering, Iraq); Naser Al-Falahy (University Of Anbar, Iraq)
  [1570961224]
- ***Turbo Coding Performance Improvement With Unbalanced Periodic Bit Insertion*****,** Mohammed AlMahamdy (University Of Anbar, Iraq); Jeffrey Dill (Ohio University, USA)
  [1570964565]
- ***High-Performance of Mobile Robot Behavior Based on Intelligent System*****,** Abduljabbar Khudhur Abduljabbar (University of ANBAR, Iraq); Yousif Ismail Al Mashhadany (University of Anbar, Iraq)
  [1570965277]
- ***Enhancing Performance in Vehicular Ad Hoc Networks: The Optimization Algorithm Perspective***, Hamid Alasadi (IRAQ- BASRA & basra UNIV., Iraq); Hanadi Hassan Karim Al-maliki (University of Basrah, Iraq)
  [1570965499]
- ***Enhancement and Design of the Proton Exchange Membrane of Hydrogen Fuel Cell,*** Mustafa Almaliki Ali (Babol Noshirvani University of Technology (NIT) & TDMP, Iran); omid Jahanian Jahanian (Babol Noshirvani University of Technology, Iran, Iraq); Qusay Jihad Abdul Ghafoor (University of Technology, Iraq)
  [1570965874]
- ***Artificial Intelligence as a Tool for Creating the Historic City Centers Brand***, Amani Kamal (University of Technology, Iraq); Venus Suleiman Akef (The University of Technology, Iraq)
  [1570969562]
- ***PERSONALIZED EXPERIENCES WITHIN HERITAGE BUILDINGS (Leveraging AI to Boost Visitor Engagement)***, Ghufran Saadi Saihood (University of Technology- Iraq, Iraq); Ahmed Talib Hameed Haddad (University of Technology - Iraq, Iraq); Firas Eyada (Gensler-Germany, Germany)
  [1570970455]

Parallel session 17 **(online)**: **Artificial Intelligence for Improving Patient and Medical Safety**

- ***Feature Selection for Binary Dataset Using DragonFly Algorithm*****,** Zaid Tariq (Informatics Institute for Post Graduate Studies, Iraq)
  [1570952535]
- ***Soft Robot for Ankle Rehabilita*****tion,** Dina Ayad (University of Basrah, Iraq); Alaa Al-Ibadi (The University of Basrah, Iraq & University of Salford, United Kingdom (Great Britain)); Maria Elena Giannaccini (Lecturer in Robotics at the University of Aberdeen, United Kingdom (Great Britain))
  [1570954911]
- ***Ensemble Model for Prostate Cancer Detection Using MRI Images*****,** Omar Jawad Kadhim (Modern Uuniversity for Business and Science, Iraq); Ahmed Adil Nafea (University of Anbar, Iraq); Salah A. Aliesawi (University Of Anbar, Iraq); Mohammed M AL-Ani (Universiti Kebangsaan Malaysia, Malaysia)
  [1570958204]
- ***Use of Raman and Fourier Transform Infrared Spectroscopy as a Quality Control of 3D Printed Linalool Fast Dissolving Oral Films*****,** Molly Thompson (Liverpool John Moores University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United

Kingdom (Great Britain)); Alice McCloskey (Liverpool John Moores University, United Kingdom (Great Britain)); Satyajit D Sarker (Liverpool John Moores University, United Kingdom (Great Britain)); Leung Tang (Agilent Technology, United Kingdom (Great Britain)); Fazreelia Mohamed (Liverpool John Moores University, United Kingdom (Great Britain)); Megan Wilson (Liverpool John Moores University, United Kingdom (Great Britain)); Touraj Ehtezazi (Liverpool John Moores University, United Kingdom (Great Britain))
[1570958213]

- ***Health Claim Propensity Model Using Machine Learning*****,** Subhadip Ghosh (Liverpool John Moore University, India)
[1570966030]

TECHNICAL PROGRAM-WEDNESDAY, 20TH DECEMBER 2023

Discussion Panel 2: Ethical AI
Prof. Abir Hussain, *University of Sharjah, UAE*
Dr. Hoshang Kolivand, *Liverpool John Moores University, UK*
Dr. Wasiq Khan, *Liverpool John Moores University, UK*
Dr. Raghad Alshabandar, University *of Anbar, Iraq*

Parallel sessions

Parallel session 18 (online): Contemporary Computing as an Effective Approach for Sustainable Development in Industry 4.0

- ***Detect and Mitigate Cyberattacks Using SIEM*****,** Zeyad Safaa Younus (University of Mosul, Iraq); Mafaz Alanezi (University of Mosul, Iraq) [1570959115]
- ***Virtual Reality Technology for Digitizing and Sustaining Tangible Historical and Cultural Heritage,*** Basim Mahmood (University of Mosul, Iraq & BioComplex Laboratory - Exeter, United Kingdom (Great Britain)); Mafaz Alanezi (University of Mosul, Iraq) [1570959122]
- ***An Optimized Byzantine Fault Tolerance Algorithm via MAC for Private Blockchain*****,** Marah Mohammed Taha, compter (Al Noor University College & University of Mosul, Iraq); Mafaz Alanezi (University of Mosul, Iraq) [1570959465]
- ***Arabic Speech Recognition Based on Self Supervised Learning*****,** Hiba A Younis (University of Mosul, Iraq); Yusra Faisal Mohammad (University of Mosul, Iraq) [1570960853]
- ***Decarbonizing the Aerospace Scope 3 Emissions With Efficient Data Monitoring Framework*****,** Prathaban Durai (Liverpool John Moores University, United Kingdom (Great Britain)); Jagannath E. Nalavade (Upgrad & MIT Art Design and Technology University Pune, India) [1570965712]

Parallel session 19 (online): Artificial Intelligence for Improving Patient and Medical Safety

- ***Explainable AI for Breast Cancer Detection: A LIME-Driven Approach*****,** Tarek Khater (Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates); Salwa Yasen (eSystem Engineering Society, United Kingdom (Great Britain)) [1570966633]
- ***Using Simulation to Evaluate Parking Space Efficiency*****,** Irina Makarova (Kazan Federal University, Russia); Alla Krivonogova (Kazan Federal University, Russia); Alexander Voroshilov (Kazan Federal University, Russia); Larisa Fatikhova (Kazan Federal University, Russia); Eduard Tsybunov (Kazan Federal University, Russia); Jamila Mustafina (Kazan Federal University, Russia) [1570967639]
- ***Joint Task Offloading and Energy Allocation for UAV-Based Fog Computing Through Federated Deep Reinforcement Learning*****,** Aqeel Thamer Jawad (University of Diyala & University of Sfax, Tunisia); Rihab Maaloul (University of Sfax, Tunisia); Lamia Chaari (University of Computer Science and Multimedia of Sfax & Laboratory of Technologies for Smart Systems at Digital Research Center of Sfax (CRNS), Tunisia) [1570972445]
- ***Identification of Diagnostic Biomarkers for Cardiovascular Diseases and Diabetes Mellitus Through Raman Spectroscopy and Machine Learning Algorithms*****,** Megan Wilson (Liverpool John Moores University, United Kingdom (Great Britain)); Sulaf Assi (Liverpool John Moores University, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Ismail Abbas (Lebanese University, Lebanon); Iftikhar Khan (Liverpool John Moores University, United Kingdom (Great Britain)); Jason Birkett (Liverpool John Moores University, United Kingdom (Great Britain)); Leung Tang

(Agilent Technology, United Kingdom (Great Britain))

[1570974981]

- ***New Multipurpose Assistive Technology to Support Physically Disabled Adults*****,** Matthew Mahmud (Liverpool John Moores University, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Wasiq Khan (Liverpool John Moores University, United Kingdom (Great Britain))

[1570977818]

Parallel session 20 (online): The implication of Generative AI in Education

- ***CNN Hyper-Parameter Optimizer Based on Evolutionary Selection and GOW Approach for Crimes Tweet Detection*****,** Zainab Khyioon Abd alrdha (Mustansiriyah University, Iraq); Abbas M. Al-Bakry (University of Information Technology and Communications, Iraq); Alaa Kadhim Farhan (University of Technology & Higer Eduction, Iraq)

[1570965497]

- ***Ensemble Learning With Optimum Feature Selection for Tweet Fake News Detection Using the Dragonfly Approach*****,** Saadi Mohammed Saadi (Iraqi Commission for Computers and Informatics Informatics Institute of Postgraduate Studies, Iraq); Waleed Al-Jawher (Uruk University, Iraq)

[1570965848]

- ***Applying Dragonfly Algorithm for Feature Selection Optimizing in Machine Learning Classification*****,** Zaid Tariq (Informatics Institute for Post Graduate Studies, Iraq)

[1570966537]

- ***Optimal and Robust Control Design for Educational Magnetic Levitation System*****,** Musadaq Hadi (University of Technology, Iraq); Hazem Ali (University of Technology, Iraq)

[1570966548]

- ***Gene Disease Classification From Biomedical Text via Ensemble Machine Learning*****,** Rabea Falih Ghazi (Iraqi Computer Authority, Iraq)

[1570966549]

Parallel session 21 (online): The implication of Generative AI in Education

- ***Role of AI-Supported Serious Simulation Games in Urban Planning Education***, Mays Ahmed (Iraq); Zuhair Nasar (University of Kufa, Iraq)

[1570970979]

- ***A New Multi-Class Classification Method Based on Machine Learning to Document Classification***, Ahmed Hussein Salman (Informatics Institute for Postgraduate Studies, Iraqi Commission for Computers and Informatic, Iraq); Waleed Al-Jawher (Uruk University, Iraq)

[1570970993]

- ***A Review of Digital Signal Processing Techniques for Protein-Coding Region Identification in DNA Sequences***, Ammar AbdRaba Sakran (University of Information Technology and Communications, Iraq); Waleed Al-Jawher (Uruk University, Iraq); Suha Mohammed Hadi (Iraqi Commission for Computers and Informatics, Iraq)

[1570971976]

- ***The Role of Three-Base Periodicity in Enhancing Exon Detection Through DSP Techniques***, Ammar AbdRaba Sakran (University of Information Technology and Communications, Iraq); Waleed Al-Jawher (Uruk University, Iraq); Suha Mohammed Hadi (Iraqi Commission for Computers and Informatics, Iraq)

[1570976657]

- ***A Unified Approach Towards Security Audit and Compliance in Cloud Computing Environment***, Rajesh Yalavaguli Seetharamarao (Liverpool John Mores University - Upgrad & FINTAccX Consultants, India)

[1570964391]

Parallel session 22 (online): Applications of Artificial Intelligence (IA) in Medicine & AI and Media

- ***Infographics Generator: A Smart Application for Visual Summarization*****,** Manoj Nath (Boeing India Private Limited, India); Lakshmi Ethirajan (Boeing India Private Limited, India, India)
  [1570964262]
- ***Alzheimer's Disease Classification Based on Demographic Data and Machine Learning*****,** Layla Dawood Almardoud (University of Sharjah, United Arab Emirates); Hissam Tawfik (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates); Soliman Mahmoud (University of Sharjah, United Arab Emirates)
  [1570968980]
- ***Design and Implementation of Web Based Virtual Test System for Coronavirus (COVID-19) Epidemic*****,** Wasnaa Kadhim (University of Information Technology and Communications, Iraq)
  [1570969966]
- ***Ethical Challenges Associated With Security Vulnerabilities and Data Privacy in Social Networking*****,** Seyed Ebrahim Hosseini (Whitecliffe, New Zealand); Shahbaz Pervez (Whitecliffe, New Zealand)
  [1570976246]

Parallel session 23 (online): Emerging Trends in Data Science Theory and Multidisciplinary Applications

- ***Effect of Augmented Reality and Virtual Reality in Crime Scene Investigations***, Meshal Albeedan, Mr (University of Liverpool John Moores & None, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain)); Ramy Hammady (University of Essex & Helwan University, United Kingdom (Great Britain))
  [1570966538]
- ***A Review on Interactive Hands-Free Game Using BCI***, Faris Abuhashish (University of Petra, Jordan); George Sbyrakis (Sbyrakis, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain)); Riyadh Al-Rousan (Univerity of Petra, Jordan); Mansour El Sherief (University of Petra, Jordan)
  [1570973090]
- ***IPv6 Detection Techniques and Solutions***, Mostafa Tajdini (Staffordshire University & School of Computing and Digital Technologies, United Kingdom (Great Britain)); Hoshang Kolivand (Dep CS LJMU, United Kingdom (Great Britain))
  [1570973154]
- ***Ergonomics Verification of the Machine Operator Activities Using Motion Capture Through Virtual Reality in the Prototyping and Designing Phase***, Filip Rybnikár (University of West Bohemia in Pilsen, Czech Republic); Michal Šimon (University of West Bohemia in Pilsen, Czech Republic); Pavel Vránek (University of West Bohemia in Pilsen, Czech Republic); Matěj Krňoul (University of West Bohemia in Pilsen, Czech Republic)
  [1570976648]
- ***Cheiloplasty Pre-Planning Through Machine Learning: A Conceptual Approach***, Mahyar Kolivand (School of Medicine, University of Liverpool, United Kingdom (Great Britain)); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain))
  [1570961375]

Parallel session 24 (online): Emerging Trends in Data Science Theory and Multidisciplinary Applications

- ***Brain Stroke Prediction Through Deep Learning Techniques With ADASYN Strategy*****,** Amjad Rehman (AIDA Lab CCIS Prince Sultan University Riyadh KSA, Saudi Arabia)
  [1570965567]

Parallel session 25 (online): AI and Intelligent Decision Support System

- ***A Study on Data-Driven Energy Forecasting: A Machine Learning Perspectiv***, Sharath Menon (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia); Manoj Jayabalan (Liverpool John Moores University,

- ***Tomato Plant Leaf Disease Classification Using Deep Learning*****,** Anil R. Ghodekar (Liverpool John Moores University, United Kingdom (Great Britain)); Nailya Sultanova (Kazan Federal University, Russia); Manoj Jayabalan (Liverpool John Moores University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1570972427]
- ***Privacy Preservation of Clusters With Distance as Sensitivity Measure*****,** Sowmya Sr (Dayananda Sagar Academy of Technology and Managaement, India); Manjunath Ss (Academy of Technology and Management, India)
  [1570974758]
- ***Enhancing Arabic Text Classification With a Hybrid Word Embedding Method*****,** Eman Aljohani (Taibah University, Saudi Arabia)
  [1570975369]
- ***Intelligent Measuring for a Customer Satisfaction Level Inspired by Transformation Language Model*****,** Abir Hussain (University of Sharjah, United Arab Emirates)
  [1570976222]

Parallel session 26 (online & on-site): Emerging, innovative and intelligent Industrial/Internet of Things (IoT)-based smart solutions for various industrial applications. – Note: -Scheduled on Day 2

- ***Design of Smart Garden Watering and Lighting Using Arduino*****,** Hadeel Saeed (Computer Science, Iraq); Nuha Abdulla Hamad (University of Anbar, Iraq); Sumaya Hamad (University of Anbar, Iraq)
  [1570945768]
- ***A Low-Cost Remote Asset Monitoring Solution Through Energy Consumption*****,** Obiefuna Obidike (Op-tec Systems Ltd, United Kingdom (Great Britain)); Aris C. Alexoulis Chrysovergis (Manchester Metropolitan University, United Kingdom (Great Britain)); Muhammad Ateeq (Xi'an Jiaotong-Liverpool University & University of Liverpool - Honorary Association, China)
  [1570969288]
- ***Image Forgery Detection Using Combined 2D DWT-Neural Network*****,** Haider Abdulkarim (Dept. of Communication Engineering, University of Technology, Baghdad, Iraq., Iraq); Marwa K. Farhan (Scholarships and Culture Relationships Directorate, Ministry of Higher Education and Scientific Research, Baghdad, Iraq, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia)
  [1570969977]
- ***Intelligent Measuring for a Customer Satisfaction Level Inspired by Transformation Language Model,*** Abir Hussain (University of Sharjah, United Arab Emirates)
  [1570972416]
- ***Deception Detection Deep Learning Comprehensive System Utilizing Explainable AI***, Abir Hussain (University of Sharjah, United Arab Emirates)
  [1570974270]
- ***Polysemy as a Complexity Predictor in School Textbooks***, Andrew V. Danilov (Kazan Federal University & Acme Corporation, Russia); Zilya Nuretdinova (Text Analytics Laboratory, Russia); Zulfat Miftakhutdinov (Kazan Federal University, Russia); Elvira Sharifullina (Kazan Federal University, Russia); Nazym Kydyrbayeva (Al-Farabi Kazakh National University, Kazakhstan); Tatyana Soldatkina (Kazan Federal University, Russia)
  [1570976578]
- ***The Effect of Vulnerability in Facial Biometric Authentication***, Seyed Ebrahim Hosseini (Whitecliffe, New Zealand); Shahbaz Pervez (Whitecliffe, New Zealand)
  [1570976628]

Parallel session 27 (online): **Deep Learning: Techniques and Applications**

- ***Real-Time Emotion Recognition System for Dynamic Real-World Environments*****,** Mayur Madnani (Liverpool John Moores University, United Kingdom (Great Britain))
  [1570961853]
- ***Violent Activity Detection on Public Transportation Using Surveillance Footage*****,** Mandar Kulkarni (Liverpool John Moores University, India)
  [1570964760]
- ***Enhanced Document Classification Using Ensemble Techniques*****,** Ahmed Hussein Salman (Informatics Institute for Postgraduate Studies, Iraqi Commission for Computers and Informatic, Iraq); Waleed Al-Jawher (Uruk University, Iraq)
  [1570968392]
- ***Improving the CNN Model for Arabic Crime Tweet Detection Based on an Intelligent Dictionary*****,** Zainab Khyioon Abd alrdha (Mustansiriyah University, Iraq); Abbas M. Al-Bakry (University of Information Technology and Communications, Iraq); Alaa Kadhim Farhan (University of Technology & Higer Eduction, Iraq)

Iraq); Mustafa Ghanim Rzooki (University of Technology, Iraq)
[1570954325]

- ***GANToon - Generative Adversarial Network (GAN) With Dual Discriminators for Cartoonization*****,** Lakshmi Ethirajan (Liverpool John Moores University & Boeing India Pvt Ltd, India); Jyoti Dabass (IIT Delhi, India)
[1570955738]

- ***Improved Simulation-Based Circular Microwave Sensor for Water Quality Assessment*****, Omar Alshaltone (University of Sharjah, United Arab Emirates); Eqab Almajali (University of Sharjah, United Arab Emirates); Abir Hussain (University of Sharjah, United Arab Emirates)**
[1570976864]

[1570970248]

- ***Analyzing Sentiment for Opinion Mining of Large Movie Reviews Using Naive Bayes With Word Frequency****,* Mustafa Abdalrassual Jassim (Al-Muthanna University & University of Monastir, Iraq); Dhafar Hamed Abd (University of Anbar, Iraq); Mohamed Nazih Omri (University of Sousse, Tunisia)
[1570960982]

Parallel session 28 (online): Advancing Higher Education Research through Industry 4.0, Deep Learning, NLP, and Large Language Models

- ***Deep Learning Based Fault Classification and Location for Photovoltaic Systems*****,** Izziyyah Mazen Alsudi (Al-Balqa Applied University, Jordan); Kasim M. Al-Aubidy (Philadelphia University, Jordan)
[1570942820]
- ***Outlier for High Dimensional Data A Review*****,** Wasan AbdAlMajeed Alani (University of Anbar, Iraq); Murtadha Al-Hetee (University of Anbar, Iraq)
[1570947075]
- ***Detection of Autism Spectrum Disorder by Using Common Machine Learning Algorithms*****,** Anas D. Sallibi (University of Anbar, Iraq); Khattab M. Ali Alheeti (University of Anbar, Iraq)
[1570947598]
- ***Perspectives on Industry 4.0 Awareness Among Undergraduate IT Students in IRAQ: University of Anbar as a Case Study*****,** Ahmed J. Aljaaf (Liverpool John Moores University, United Kingdom (Great Britain) & University of Anbar, Iraq); Mohammed Ibrahim (University of Anbar, Iraq); Mushtak Al-Ouqaili (University of Anbar, Iraq); Dhiya Al-Jumeily (Liverpool John Moores University, United Kingdom (Great Britain)); Jamila Mustafina (Kazan Federal University, Russia); Aysha Al-Rawi (University of Anbar, Iraq); Maha M. Rasheed (University of Anbar, Iraq)
[1570948849]
- ***Recommender Systems and Machine Learning Techniques for Large Educational Data: A Survey*****,** Ammar A

Parallel session 29 **(online): Advancing Higher Education Research through Industry 4.0, Deep Learning, NLP, and Large Language Models**

- ***Survey Study of Digital Forensics: Challenges, Applications and Tools***, Abeer D. Salman (University of Anbar & Electronic Computer Center, Iraq); Ekram H Hasan (University of Anbar, Iraq)
[1570953188]
- ***Comprehensive Study of Side-Channel Analysis (CyberSecurity),*** Zaid M Obaid Obaid (University of Anbar, Iraq); Khattab M. Ali Alheeti (University of Anbar, Iraq)
[1570955081]

- ***A Review Paper: Security for Supervisory Control and Data Acquisition SCADA Based on DNP3***, Amina A. Alrawi (University of Anbar, Iraq); Khattab M. Ali Alheeti (University of Anbar, Iraq)
[1570955630]
- ***The Java Starter: An Ontology-Based Tutoring System for Java Beginners***, Miruna I Pirvulescu (King's College London, United Kingdom (Great Britain)); Sahar Al-Sudani (Singapore Institute of Technology, Singapore)
[1570958518]
- ***Artificial Intelligence Techniques for Adaptive Controlled Air Conditions***, Ahmed Subhi Abdalkafor (University of Anbar, Iraq); Yaseen Saleem Yaseen (University of Anbar, Iraq); Alaa Abdalqahar Jihad (University of Anbar & Computer Center, Iraq)
[1570958720]

Mohammed (University of Anbar, Iraq); Murtadha Al-Hetee (University of Anbar, Iraq)
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Parallel session 30 (online): Advancing Higher Education Research through Industry 4.0, Deep Learning, NLP, and Large Language Models

- ***A Review on Machine Learning Driven Models for Early Diagnosis of Chronic Kidney Diseases*****,** Akeel Shaker Mahmoud (University of Anbar, Iraq); Olfa Lamouchi (University of Carthage, Tunisia); Safya Belghith (Ecole Nationale d'Ingénieurs de Tunis, Tunisia)
[1570959293]
- ***Model-Driven Engineering for Embedded Systems With Non-Functional Properties Analysis Integration: A Review*****,** Omar Jawad Kadhim (Modern Uuniversity for Business and Science, Iraq); Ahmed Adil Nafea (University of Anbar, Iraq); Anas D. Sallibi (University of Anbar, Iraq); Mohammed Kareem (University of Anbar, Iraq)
[1570959479]
- ***Anomaly Detection in Wireless Sensor Networks Using Machine Learning: Review,*** Hadeel Saleh (University of Anbar, Center for Continuing Education & University of Safax, Tunisia)
[1570960772]
- ***Proposed Security System for Cities Based on Animal Recognition Using IOT*****,** Eman Mahdi (University of Anbar, Iraq); Waleed Kareem (University of Anbar & Iraq, Iraq); Maha M. Rasheed (University of Anbar, Iraq); Amal Turki (University of Anbar, Iraq)
[1570961219]
- ***An Effective Hybrid Model for Skin Cancer Detection Using Transfer Learning*****,** Hussam Jasim Mohammed, H. (University of Anbar, Iraq); Ahmed Adil Nafea (University of Anbar, Iraq); Hussein K. Almulla (University of Anbar, Iraq); Salah A. Aliesawi (University Of Anbar, Iraq); Mohammed M AL-Ani (Universiti Kebangsaan Malaysia, Malaysia)
[1570965228]

Parallel session 31 (online): Advancing Higher Education Research through Industry 4.0, Deep Learning, NLP, and Large Language Models

- ***An Automated Approach for Prediction of Half-Maximal Inhibitory Concentration (pIC50) Values, Bioactivity Classes of Acetylcholinesterase Inhibitors and Its Application to Alzheimer's Disease***, Nanda Kumar M R (Liverpool John Moores University, India)
[1570946638]
- ***Human Verification System Based on DNA Biometrics***, Hiba Abdulelah (University of Mustansiriyah & Computer Science, Iraq); Mustafa Dhiaa Al-Hassani (Mustansiriyah University, Iraq); Majeed Arsheed (University of Alnahrain, Iraq)
[1570964416]
- ***Effective Mutual Authentication Scheme and Message Authentication for Internet of Things (IoT) Using Fog Computing Technology***, Salwan R Hamade (University of Anbar, Iraq); Omar A. Dawood (University Of Anbar, Iraq)
[1570965437]
- ***Learning-Based Grey Wolf Optimizer for Job Shop Scheduling Problem***, Ahmed Abdulmunem Hussein (University of Samarra & University of Anbar, Iraq); Esam Yassen (University of Anbar & Center for Artificial Intelligent (CAIT), Universiti Kebangsaan Malaysia, Iraq); Ahmed Noori Rashid (University of Anbar, Iraq)
[1570965481]
- ***LLANIME: Large Language Models for Anime Recommendations***, Anjali Agarwal (Liverpool John Moores University, United Kingdom (Great Britain)); Sahil Sharma (Ulster University, India & Northland Road, Londonderry, United Kingdom (Great Britain))
[1570965729]
- ***3D-SLAM Implementation on Commercial UAV: Challenges and Future Insights***, Yaman Shullar (KFUPM, Saudi Arabia); Uthman Baroudi (King Fahd University of Petroleum and Minerals, Saudi Arabia)
[1570947475]