

# eSmarTA

2024 The 4th International Conference  
on Emerging Smart Technologies  
and Applications



## The 4th International Conference on Emerging Smart Technologies and Applications (eSmarTA-2024)



ALJEEL ALJADEED UNIVERSITY, Sana'a, Yemen



August 6 – 7, 2024

# General eSmarTA-2024 Program

Day 1: Tuesday 6 <sup>th</sup> August, 2024				
08:00 – 09:00	Registration and Reception			
09:00 – 09:05	Quran Kareem			
09:05 – 09:10	National Anthem and Palestine Anthem			
09:10 – 09:20	Speech of eSmarTA-2024 Honorary Chair and Aljeel Aljadeed University President, <b>Prof. Dr. Hamdan Alshami</b>			
09:20 – 09:30	Speech of Yemen Research Organization, <b>Dr. Murad Rassam</b>			
09:30 – 09:40	Speech of IEEE Yemen Subsection, <b>Miss. Sarah Al-Shqaqi</b>			
09:40 – 09:50	Speech of eSmarTA-2024 General Chair, <b>Dr. Redhwan Shaddad</b>			
09:50 – 10:00	Speech of Minister of Higher Education and Scientific Research <b>Mr. Hussain Hazeb</b>			
10:00 - 10:10	Speech of Prime Minister <b>Prof. Dr. Abdulaziz Bin Habtour</b>			
10:20 – 11:00	Keynote speech entitled " <i>Power Electronics Technology - Quo Vadis</i> " by Prof. Dr. <b>Frede Blaabjerg, Aalborg University, Denmark</b>			
11:00– 11:40	Keynote speech entitled " <i>Smart City Technology-Key to Unlocking Sustainable Development &amp; Challenges</i> " by Prof. Dr. Huda Bt Haji Ibrahim, University Utara Malaysia (UUM), Malaysia			
11:40– 12:20	Keynote speech entitled " <i>Non-Terrestrial Networks: role and perspectives for advanced connectivity</i> " by Dr. Ali Nosary , CEO of TeleYemen, Yemen			
12:20 – 13:00	<b>Break and Lunch (ONSITE)</b>			
12:30 – 15:00	Parallel Sessions			
	Main Hall	Hall (2)	Hall (3)	Hall (4)
	10	10	10	10
Day 2: Wednesday 7 <sup>th</sup> August, 2024				
08:00 – 08:20	Registration			
08:20 – 09:00	Keynote speech entitled " <i>Unveiling the Transformative Potential of Generative AI and Large Language Models in Data Analytics</i> " by Dr. Ebrahim Alareqi, Volvo in Sunnyvale, California, USA			
09:00 – 09:40	Keynote speech entitled " <i>Generative AI: Cyber Security Friend or Foe</i> " by Asso. Prof. Dr. <b>Mohammad A. Razzaque, Teesside University, United Kingdom</b>			
09:40 – 10:20	Keynote speech entitled " <i>Securing the Future: Combating IoT Vulnerabilities in a Connected World</i> " by Asso. Prof. Dr. <b>Murad A. Rassam, Cybersecurity and Networks, Taiz University, Yemen</b>			
10:20 – 10:30	<b>Refreshment</b>			
10:30 – 13:15	Parallel Sessions			
	Main Hall	Hall (2)	Hall (3)	Hall (4)
	11	11	11	11
13:00– 13:30	<b>Close and Distribute Certificates</b>			
13:30 – 14:00	<b>Lunch (ONSITE)</b>			

# Opening Ceremony & Conference Program of eSmarTA-2024

7-6 August 2024

## Opening Ceremony

Tuesday: August 6<sup>th</sup>, 2024 (9:00 – 15:00), Main Hall

08:00 – 09:00	Registration and Reception
09:00 – 09:05	Quran Kareem
09:05 – 09:10	National Anthem
09:10 – 09:20	Speech of eSmarTA-2024 Honorary Chair and Aljeel Aljadeed University President, Prof. Dr. Hamdan Alshami
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12:30 – 15:00	<b>Parallel Sessions</b>

Session I

Tuesday: August 6<sup>th</sup>, 2024 (12:15 – 15:00), Location: Main Hall

Time	Paper ID	ONSITE Chaired by	Dr. Adel Rawea
			Dr. Waleed Altalabi
		ONLINE Chaired by	Dr. Abdulrazak Y. Alhababi
12:30– 12:45	6	<b>Exploring the nexus between AI in Technical Recruitment and Start-ups' Success</b> <i>Pravin Yadav, Dnyaneshwar Pisal, Umesh Kollimath, Sudarshan Giramkar, Shriram Badave and Vijay Dhole</i>	
12:45– 13:00	12	<b>Predicting Child Development Status: Can Machine Learning Help?</b> <i>Önder Çoban, Ensar Şehitoğlu and Mete Yağanoğlu</i>	
13:00– 13:15	139	<b>The Role of YOLOv8 in Enhancing Strategic Military Equipment Detection</b> <i>Abdulfattah Ba Alawi and Hussein M. A. Mohammed</i>	
13:15 – 13:30	87	<b>A Model for Measuring the Effect of Splitting Data Method on the Efficiency of Machine Learning Models: A Comparative Study</b> <i>Abeer Shj, Fadl Ba-Alwi, Ammar Zahary and Ahmed Alhegami</i>	
13:30– 13:45	118	<b>AI-Empowered Peatland Management for Climate-Resilient and Sustainable Future: Challenges and Opportunities</b> <i>Saeed Hamood Alsamhi, Neil J Rowan, Ammar Hawbani, Farhan Nashwan and Niall O'Brolchain</i>	
13:45– 14:00	74	<b>An Efficient Bidirectional Prototype for Arabic Sign Language Translation Using Deep Learning with Fuzzy Logic Tool</b> Mogeeb Mosleh	
14:00 – 14:15	173	<b>Development and Evaluation of Pre-trained Deep Learning Models for Efficient Arabic Sign Language Recognition</b> <i>Ahmed A.A. Mohammed, Ezzaldeen E.A.Abdo, Mogeeb Mosleh, Rehab A.A. Moahmed and Basheer Almuahaya</i>	
14:15 – 14:30	190	<b>Comparison of YOLO Algorithms for Vehicle Accident Detection and Classification</b> <i>Ahmed N. Nusari, Abdulfattah E. Ba Alawi, Ferhat Bozkurt and İbrahim Yücel Özbek</i>	
14:30 – 14:45	200	<b>CASolarNet: Channel Attention EfficientNet-based Model for Solar Panel Dust Detection</b> <i>Hussein M. A. Mohammed and Abdulfattah Ba Alawi</i>	
14:45 – 15:00	202	<b>An Efficient Detection Model for Brain Stroke Based on Transfer Learning</b> <i>Faroq H. M. Mohammed, Abdulfattah Ba Alawi, Ferhat Bozkurt and M. Dilruba Geyikoğlu</i>	

Session II

Tuesday: August 6<sup>th</sup>, 2024 (12:15 – 14:45), Location: Hall (2)

Time	Paper ID	ONSITE Chaired by	Dr. Faruk Alfuhedi
			Dr. Malek Algabri
		ONLINE Chaired by	Dr. Abdu Saif
			Dr. Abdullah Almogahed
12:30– 12:45	18	<b>Resilient Skies: Advancing Climate-Resilient UAVs for Energy-Efficient B5G Communication in Challenging Environments</b> <i>Abdu Saif, Nor Shahida Mohd Shah, Aiman Alnoamani, Ali Ameen, Saeed Hamood Alsamhi, Edward Curry and Vailet Al Khattat</i>	
12:45– 13:00	51	<b>Cloud Communication for Bridging Business Communication Gaps</b> <i>Pravin Yadav, Dnyaneshwar Pisal, Umesh Kollimath, Sudarshan Giramkar, Shriram Badave and Vijay Dhole</i>	
13:00– 13:15	72	<b>Optimizing Energy and QoS in VANETs through Approximate Computation on Heterogeneous MPSoCs</b> <i>Ahmed Abbas Jasim Al-Hchaimi, Abdul Hadi M. Alaidi, Mohammed F. Alomari and Yousif Raad Muhsen</i>	
13:15 – 13:30	79	<b>Comparative Analysis of Machine Learning Models for Sentiment Analysis of Twitter Data</b> <i>Usama Shehroz, Talha Ali Khan, Nafeesath Parappurathputhiyapurayil, Iftikhar Ahmed, Rand Kouatly and Meerah Karunanithi</i>	
13:30– 13:45	127	<b>Deep Learning Based Automatic Modulation Recognition Using GELU Activation Function</b> <i>Bilge Erdem Altuntaş, Ömer Aksu, Melih Yiğitcan Çelik and Mehmet Hakan Durak</i>	
13:45– 14:00	136	<b>Enhancing load balancing &amp; Fault Tolerance in Real-Time Applications Using SD-WAN</b> <i>Mohammed A Makarem, Akram Q Algaolahi, Abdullrhman A Alhajri and Muneef A Razaz</i>	
14:00 – 14:15	138	<b>VLC Channel estimation for indoor environment using LSTM</b> <i>Muneef A. Razaz, Akram Q. Algaolahi, Mohammed A. Makarem and Ebrahim H. Alwady</i>	
14:15 – 14:30	201	<b>Development of Local Multimedia Transmission Network Based on Computer and Mobile Applications</b> <i>Redhwan Q Shaddad, Wahib Aldhaferi, Baleegh Mohammed, Ahmed Alhemiary, Hesham Aledrisi, Mosa Hadwan and Essam Assad</i>	
14:30 – 14:45	203	<b>Metamaterial-based frequency selective surface for Efficient Future Wireless Communication at 120GHz</b> <i>Mohammed A. M. Sultan, Moataseem A.H Hassan and Abdulaziz Al-Hetar</i>	
14:45 – 15:00	206	<b>Development of Content-Based Filtering Model for Recommendation System Using Multiple Factors related to object Preference</b> <i>Swaleha Zubair, Muaadh Abdo Al Sabri and Fatima Amer Jid Almahri</i>	

Session III

Tuesday: August 6<sup>th</sup>, 2024 (12:15 – 14:45), Location: Hall (3)

Time	Paper ID	ONSITE Chaired by	Dr. Najran Aldolah
		Dr. Abdulwasa Alazani	
		ONLINE Chaired by	Dr. Redhwan Alsulahi
12:30– 12:45	1	<b>A Study of Radio Frequency Identification: Security and Application</b> <i>James Jaluag and Francis Onodueze</i>	
12:45– 13:00	5	<b>Exploring And Evaluating Datasets In Software Vulnerability Analysis: A Review</b> <i>Ali Shihab and Mafaz Alanezi</i>	
13:00– 13:15	24	<b>Enhancing Data Security in E-Health through Blockchain Technology</b> <i>Raneem Alfadhel, Rawan Alrumaih, Orjowan Albulihy, Mohammed Alamro, Ghadi Almaktoum and Salim Khediri</i>	
13:15 – 13:30	26	<b>Automatic Detection of Learning Styles on OpenEdx Using Trace Analysis</b> <i>Youness Chaabi, Khadija Lekdioui and Yahya Al-Ashmoery</i>	
13:30– 13:45	52	<b>Transfer Learning Approach for Detecting Keylogging Attack on the Internet of Things</b> <i>Yahya Alhaj Maz, Mohamad Anbar, Selvakumar Manickam and Mosleh M Abualhaj</i>	
13:45– 14:00	61	<b>Towards a Lightweight Detection System Leveraging Ranking Techniques with Wrapper Feature Selection Algorithm for Selective Forwarding Attacks in Low power and Lossy Networks of IoTs</b> <i>Taief Alaa Al-Amiedy, Mohammed Anbar, Bahari Belaton, Abdullah Ahmed Bahashwan and Mosleh M. Abualhaj</i>	
14:00 – 14:15	91	<b>Comprehensive Performance Evaluation of Association Rule Mining Algorithms for Border Gateway Protocol Anomaly Detection</b> <i>Mubarak Altamimi, Nehad Ramaha and Akram A. Almohammedi</i>	
14:15 – 14:30	163	<b>Enhancing MANETs Security Against Black Hole Attacks through Time-Based Node Analysis in AOMDV Protocol</b> <i>Abdullah A. Naji, Mogeab A. Saeed, Ammar H. Almagashi, Alaa M. Ahmed, Hashem S. Al-Atefi, Mohammed N. Khaled and Olayan M. Rashed</i>	
14:30 – 14:45	178	<b>A Multi Rounds Block Cipher Algorithm Using Magic Square of Order Nine with Block Size Equal to 18 and 23</b> <i>Ibrahim Alattar and Abdul Monem Rahma</i>	
14:30 – 14:45	195	<b>The Security of Biometric Data in Devices with Cancellable Biometrics Technology: A Systematic Review of the Literature</b> <i>Antonio Arroyo-Paz and Carlos Choquehuanca-Chuctaya</i>	

Session IV

Tuesday: August 6<sup>th</sup>, 2024 (12:15 – 14:45), Location: Hall (4)

Time	Paper ID	ONSITE Chaired by	Dr. Gamal Aldoes
			Dr. Yahya Al-Ashmoery
		ONLINE Chaired by	Dr. Akrem Almohamdi
			Dr. Nabel Mohammed
12:30– 12:45	34	<b>Improving Self-Management of Type 2 Diabetes: Evaluating the Effectiveness of a Mobile App-Based Patient Education Approach</b> <i>Muhammad Thesa Ghozali Ghozali</i>	
12:45– 13:00	35	<b>Enhancing Self-Efficacy in Type 2 Diabetes Mellitus Patients through Digital Education: A Study in Outpatient Settings of Rural Private Hospitals in Yogyakarta, Indonesia</b> <i>Marsya Prastyani, Bagas Dwi Nugroho, Fachri Argya Cahyadi and Muhammad Thesa Ghozali</i>	
13:00– 13:15	83	<b>THE INFLUENCE OF UTAUT 2 WITH TRUST ON INTEREST IN THE OVO APP</b> <i>Nadila Gusrialni Fitri, Muhammad Luthfi Hamzah, Zarnelly Zarnelly and Anofrizen Anofrizen</i>	
13:15 – 13:30	88	<b>The Influence Of E-Customer Service, Mobile Application Design, Brand Image, And Customer Satisfaction On Interest In Mobile Banking Adoption</b> <i>Desvita Rahmadani, Muhammad Luthfi Hamzah, Angraini Angraini and Eki Saputra</i>	
13:30– 13:45	124	<b>A New Attention Mechanism for Semi-Guided Annotation of Very Large-Scale Pavement Defect Labelling in Malaysia Road Images</b> <i>Mohd Ikmal Fitri Maruzuki, Muhammad Khusairi Osman, Samsul Setumin and Anas Ibrahim</i>	
13:45– 14:00	128	<b>UI / UX DESIGN OF TRAVELING APPLICATION "TRAVELIV" USING DESIGN THINKING METHOD</b> <i>Dedi Purnomo, Muhammad Luthfi Hamzah, Rice Novita and Muhammad Afdal</i>	
14:00 – 14:15	141	<b>Examining the intentions and behaviors of using e-wallets</b> <i>Alaa S. Jameel, Shuaib M. Abdalnabi, Thabit Thabit and Ahmed S. Alheety</i>	
14:15 – 14:30	144	<b>Cloud Computing Adoption Among SMEs in Kuwait: a Preliminary Qualitative Study</b> <i>Sulaiman Alkandari, Nasuha Abdullah and Esmat Wahdain</i>	
14:30 – 14:45	180	<b>Analysis of Health Application Service Quality using the Servqual and Customer Satisfaction Index (CSI) Methods</b> <i>Afifah Pendri, Tengku Khairil Ahsyar, Syaifullah Syaifullah, Mona Fronita and Eki Saputra</i>	
14:45 – 15:00	194	<b>Cloud Computing Adoption in Pre-tertiary Malaysian Education Institution</b> <i>Jotheehwary Manimaran, Mohammed Alsamman, Fathey Mohammed, Yousef Fazea and Osman Ghazali</i>	

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Wednesday: August 7<sup>th</sup>, 2024 (8:00 – 13:30), Location: Main Hall

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08:00 – 08:20	Registration
08:20 – 09:00	Keynote speech entitled " <b><i>Unveiling the Transformative Potential of Generative AI and Large Language Models in Data Analytics</i></b> " by Dr. Ebrahim Alareqi, Volvo in Sunnyvale, California, USA
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10:20 – 10:30	<b>Refreshment (ONSITE)</b>
10:30 – 13:15	<b>Parallel Sessions</b>
13:15 – 13:30	<b>Close and Distribute Certificates</b>
13:30 – 14:00	<b>Lunch (ONSITE)</b>



Session I

Wednesday: August 7<sup>th</sup>, 2024 (10:30 – 13:00), Location: Main Hall

Time	Paper ID	ONSITE Chaired by	Dr. Ahmed Alsultan
			Dr. Hesham Aqlan
		ONLINE Chaired by	Dr. Abdulrazak Y. Alhababi
10:30 – 10:45	41	<b>Improving Packet Delivery Ratio through Duty Cycle Control in Heterogeneous Visible Light Communication</b> <i>Abdulwadood Alawadhi, Abdullah Almogahed, R. Badlishah Ahmad, Samera Obaid Barraood, Omar Al-Jamili and Mohammad Ibrahim Adawy</i>	
10:45 – 11:00	62	<b>Real-Time Diabetes Detection Using Machine Learning and Apache Spark</b> <i>Mohammed Saeed and Mogeeb Saeed</i>	
11:00 – 11:15	97	<b>A Smart Advisor for Pregnancy Healthcare Using Chatbot Approach Based on Decision Tree Methods</b> <i>Fahd Alqasemi, Roqaiyah Mokhtar, Ibrahim Alnedhami, Salma Mogali, Khawlah Hamood, Malak Korami and Amat Allah Qaid</i>	
11:15 – 11:30	110	<b>Artificial Intelligence of Things (AIoT) Technologies, Benefits and Applications</b> <i>Chowdhury Abida Anjum Era, Mahmudur Rahman and Syada Tasmia Alvi</i>	
11:30 – 11:45	120	<b>Direction of Machine Learning Research in Obstetric Care in the Last 10 Years</b> <i>Fairuz Iqbal Maulana, Dian Lestari, Puput Dani Prasetyo Adi, Miftahul Hamim, Anita Rahayu and Vandha Pradwiyasma Widartha</i>	
11:45 – 12:00	150	<b>Imaging Modalities in Brain Cancer Detection and Diagnosis</b> <i>Basheer Almuahaya, Bishal Saha, Mahmood Bazel, Rehab A. A. Mohammed, Ahmed A. A. Mohammed and Ezzaldeen E. A. Esmail</i>	
12:00 – 12:15	156	<b>Using IoT for Patient Health Monitoring System (PHMS) to Measure Temperature, Blood Pressure and ECG Based on Arduino IDE 2.x</b> <i>Esraa Abraham, Abdelsalam Elrashdi, Salem Khiralla, Nada Altawerghi and Fatma Hasan</i>	
12:15 – 12:30	166	<b>Automatic Control of Microwave Heating System Based on PID and Evolutionary Computation</b> <i>Mohaiyedin Idris, Ahmad Zuhaily Anuar Zamani, Muhammad Khusairi Osman, Ahmad Asri Abd Samat, Hasnain Abdullah, Mohd Mydin M. Abdul Kader, Esa Apriaskar and Mohd Fauzi Abu Hassan</i>	
12:30 – 12:45	172	<b>Bibliometric Analysis of Intelligent Techniques for Obstetric Complication Prediction in the Last 20 Years</b> <i>Fairuz Iqbal Maulana, Lestari Dian, Puput Dani Prasetyo Adi, Anita Rahayu, Reny Nadlifatin and Vandha Pradwiyasma Widartha</i>	
12:45 – 13:00	181	<b>Exploring Metaverse Dynamics in Supply Chain: A Bibliometric Analysis</b> <i>Anurag A. S. and Johnpaul M.</i>	
13:00 – 13:15	31	<b>Intrusion Detection Techniques in VANETs: A Machine Learning-Based Survey</b> <i>Nesmah Al-Khulaidi, Ammar Zahary, Asma Al-Shargabi and Muneer Hazaa</i>	

Session II

Wednesday: August 7<sup>th</sup>, 2024 (10:30 – 13:00), Location: Hall (2)

Time	Paper ID	ONSITE Chaired by	Dr. Adnan Almotukel
			Dr. Khaled Alhussieni
		ONLINE Chaired by	Dr. Abdullah Almojahed
10:30 – 10:45	54	<b>TSC18 Convolutional Neural Network for Traffic Sign Classification</b> <i>Adil Hussain, Dr Kashif Naseer Qureshi, Ayesha Aslam, Tariq and Muhammad Rabiul Abdullahi</i>	
10:45 – 11:00	64	<b>Kidney Disease Classification and Diagnosis: A Comprehensive Review of Current AI techniques</b> <i>Ezzaldeen Esmail, Ahmed A. A. Mohameed, Rehab A. A. Mohameed, Basheer Almuhaya, Abdulrahman Fadhl and Mahmood A. Bazel</i>	
11:00 – 11:15	100	<b>Minor Surface Cracks Detection using SCD11 Convolutional Neural Network</b> <i>Adil Hussain, Dr Kashif Naseer Qureshi, Faizan Zaman, Ayesha Aslam and Tariq</i>	
11:15 – 11:30	140	<b>FusionAraSA: Fusion-based Model for Accurate Arabic Sentiment Analysis</b> <i>Abdulfattah Ba Alawi, Ahmed N. Nusari, Ferhat Bozkurt and Ibrahim Yücel Özbek</i>	
11:30 – 11:45	151	<b>Beauty Formula DermoScan: user-centric skincare products' ingredient analysis platform</b> <i>Fathey Mohammed, Ang Rui Xuan, Tan Wei Heng, Narishah Mohamed Salleh and Ibrahim T. Nather Khasro</i>	
11:45 – 12:00	154	<b>Optimizing Heart Disease Prediction Models through SMOTE: Addressing Data Imbalance</b> <i>Waheeb Baddah, Hamzah Ali Qasem, Ayman Alsabry, Rana Saleh Al Gawani, Wafa Mohammed Alzuraiqi and F. E. Hanash</i>	
12:00 – 12:15	161	<b>Evaluating Large Language Models using Arabic Prompts to Generate Python Codes</b> <i>Nassir Jabir Al-Khafaji and Basit Khalaf Majeed</i>	
12:15 – 12:30	165	<b>Evaluating Artificial Intelligence Bias In Answering Religious Questions</b> <i>Ghadeer Albadani and Akram Alsubari</i>	
12:30 – 12:45	188	<b>Data Integration in Big Data Environment: A Review</b> <i>Esmat A. Wahdain and Nasuha L. Abdullah</i>	
12:45 – 13:00	193	<b>Sentiment Analysis to Assess Customer Retention on Instagram Social Media Using Naïve Bayes Classifier and Support Vector Machine</b> <i>Fandi Rahmat Halim, Rice Novita, Mustakim Mustakim and M Afdal</i>	
13:00 – 13:15	199	<b>BERT-AraPoetry: BERT-based Arabic Poems Classification Model</b> <i>Abdulfattah Ba Alawi, Ferhat Bozkurt and Mete Yağanoglu</i>	

Session III

Wednesday: August 7<sup>th</sup>, 2024 (10:30 – 13:00), Location: Hall (3)

Time	Paper ID	ONSITE Chaired by	Dr. Mofaq Albraq Dr. Taher Alroshahi
		ONLINE Chaired by	Dr. Redhwan Alsulahi
10:30 – 10:45	21	<b>Tifinagh Characters Recognition Using Deep CNN – LSTM</b> <i>Youness Chaabi</i>	
10:45 – 11:00	39	<b>Code Refactoring for Software Reusability: An Experimental Study</b> <i>Abdullah Almogahed, Hairulnizam Mahdin, Mazidah Mat Rejab, Abduwadood Alwadhi, Samera Obaid Barraood, Manal Othman, Omar Al-Jamili, Abdulwahab Ali Almazroi and Shazlyn Milleana Shaharudin</i>	
11:00 – 11:15	42	<b>Enhancing the Implementation of the Technology Acceptance Model (TAM) in the Drug Management Information System within the Pharmaceutical Installation of the Private Hospitals</b> <i>Hafiz Ihsan Hidayatullah, Aliyyuddin Lathif, Aloina Jean Rassyifa and Muhammad Thesa Ghozali</i>	
11:15 – 11:30	57	<b>Kinect Therapeutic Game STEAM-Based Learning for Autism Spectrum Disorder (ASD) Students</b> <i>Dea Febry, Fairusy Haryani, Karisma Rahmawati, Nadia Dewi, Esti Yulandari and Andreas Hendix</i>	
11:30 – 11:45	71	<b>Clothing Image Classification Using VGG-19 Deep Learning Model For E-commerce Web Application</b> <i>Fahd Alqasemi, Mohammed Hameed, Amr Al-Alwajih, Mohammed Shaiea and Mohammed Rageh</i>	
11:45 – 12:00	81	<b>Classification and Evaluation Framework of Automated testing tools for agile software: Technical Review</b> <i>Mogeeb Mosleh, Nashwan Al-Khulaidi, Abdu Gumaei, Ayman Alsabry and Ali Musleh</i>	
12:00 – 12:15	84	<b>Software Engineering and the Adoption of Internet of Things: A Systematic Literature Review</b> <i>Mustafa Moosa Qasim and Ali Raad Abdulkareem</i>	
12:15 – 12:30	86	<b>Agile Ontology: A Dynamic Framework for E-Business Evolution</b> <i>Mohammad Taye, Rawan Abulail and Belal Al-Ifan</i>	
12:30 – 12:45	103	<b>Enhancing Frontend Efficiency: Reusability and Testability in Component-Driven Development</b> <i>Alaa Abdulhakeem, Sabri Saeed, Nada Mustafa, Mohammed Ibrahim and Basheer Al-Tayar</i>	
12:45 – 13:00	112	<b>A-eye: Attendance monitoring using face detection and recognition from CCTV footage</b> <i>Nimesh Ambre, Raveena Pitale, Prajeet Rao, Hemalata Mote and Satishkumar Chavan</i>	
13:00 – 13:15	179	<b>Exploring Polyp Segmentation Through UNet-Based Models with Visual Insight</b> <i>Ali Sharai, Xing Huanlai and Zaid Al-Huda</i>	

Session IV

Wednesday: August 7<sup>th</sup>, 2024 (10:30 – 13:00), Location: Hall (4)

Time	Paper ID	ONSITE Chaired by	Dr. Ahamed Alarashi Dr. Yahya Al-Ashmoery
		ONLINE Chaired by	Dr. Nabel Mohammed
10:30 – 10:45	50	<b>Techno-Economical Evaluation of Photovoltaic-Powered Street Lighting Systems</b> <i>Safwan Nadweh, Nabil Mohammed and Saad Mekhilef</i>	
10:45 – 11:00	55	<b>An Ocean Wave Power Plant Buoy System to Introduce the Concept of Renewable Energy</b> <i>Dea Muthia Febry, Fairusy Fitria Haryani, Karisma Rahmawati, Sasna Ardiyana, Ahmad Fauzan and Shofi Hikmatuz Zahroh</i>	
11:00 – 11:15	80	<b>Semantic Text Matching Using Intelligent Methods: A Survey</b> <i>Fahd Alqasemi, Yousef Khaled Ahmed, Mohammed Faris Aldafer and Nooruddine F. Assarwie</i>	
11:15 – 11:30	85	<b>Designing, Optimizing, and Manufacturing of Horizontal Wind Turbine Blades Using the Available Resources.</b> <i>Yhya Al-Wazer and Gamil Al-Sharif</i>	
11:30 – 11:45	114	<b>Predicting System Availability: A Comparative Study of Autoregressive Integrated Moving Average (ARIMA) and Regression Analysis Models in a Food Factory.</b> <i>Raft Al-Rebati, Mohammad Nabhan and Mohammad Aldurgam</i>	
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12:00 – 12:15	186	<b>PRBS-Based Impedance Measurement Tool for Stability Analysis of Black-Box EMT Models in PSCAD</b> <i>Nabil Mohammed, Weihua Zhou, Behrooz Bahrani, David Hill and Frede Blaabjerg</i>	
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12:30 – 12:45	198	<b>Buildings Energy Efficiency Assessment: Case Study of Aden Apartment House</b> <i>Alhussain Al-Owaidhani, Alhassan Al-Owaidhani, Gubran Abdurahman and Naef Qasem</i>	
12:45 – 13:00	208	<b>Analysis and Implementation of Motion Planning Algorithms for Real-Time Navigation of Aerial Robots in Dynamic Environments</b> <i>Yunes Sh. Alqudsi</i>	
13:00 – 13:15	210	<b>Sensorless Direct Torque Control in Brushless DC Motor Using Sliding Mode Observer</b> <i>Amira Abo Kaf, Xin Cheng, Cong Zhang, Ali Almadwami, Abdulkareem Abdullah and Hashem Almadwami</i>	

# eSmarTA

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## المؤتمر الدولي الرابع للتقنيات الذكية الحديثة وتطبيقاتها 2024

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