

eSmarTA

2025

The 5th International Conference
on Emerging Smart Technologies
and Applications



The 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA-2025)



August 5 – 6, 2025



Ibb university, Ibb, Yemen



General eSmarTA-2025 Program

First Day: Tuesday 5 th August, 2025				
08:00 – 08:45	Registration and Reception			
08:45 – 08:50	Quran Kareem			
08:50 – 09:00	National Anthem and Palestine Anthem			
09:00 – 09:10	Talk of eSmarTA2025 Honorary Chair and Ibb University President, Prof. Dr. Nasr Alhgeli			
09:10 – 09:20	Talk of Yemen Research Organization, Dr. Redhwan Shaddad			
09:20 – 09:30	Talk of IEEE Yemen Subsection, Prof. Dr. Abdulqader Abadi			
09:30 – 09:40	Talk of eSmarTA-2025 General Chair, Dr. Murad Rassam			
09:40 – 09:50	Talk of Ministry of Education and Scientific Research Dr. Hatim Al-Doais			
09:50 - 10:00	Talk of Governorate Speech Abdulwahid Salah			
10:00 – 10:20	Refreshment (ONSITE)			
10:20 – 11:00	Keynote speech entitled " Potential and Challenges of Renewable Energy in Yemen for a Sustainable Future" by Assoc. Prof. Dr. Abuljalil Alabidi, Sana'a Community College, Yemen			
11:00– 11:40	Keynote speech entitled " AI-Powered Security for the Future Internet: Reinforcement Learning-Based Attack Detection in Named Data Networking" Assoc. Prof. Dr. Haifa Touati, Faculty of Sciences of Gabes, Tunisia			
11:40– 12:20	Keynote speech entitled " AI and Use of Land: Responsible deployment and risk management" by Prof. Dr. Mario Gongora, De Montfort University, UK			
12:20 – 13:00	Break and Lunch (ONSITE)			
12:30 – 15:00	Parallel Sessions			
	Mankathah Hall	Hall (1)	Hall (3)	Graduate Studies Hall
	10	10	11	10
Second Day: Wednesday 6 th August, 2025				
08:00 – 08:20	Registration			
08:20 – 09:00	Keynote speech entitled " Smart AI, Safer Finance - How Artificial Intelligence is Redefining Financial Crime Prevention" by Prof. Dr. Anazida Zainal, Universiti Teknologi Malaysia, Malaysia			
09:00 – 09:40	Keynote speech entitled " Boost Inverters for Single-Stage DC–AC Power Conversion" by Dr. Sze Sing Lee, Newcastle University, Singapore			
09:40 – 10:20	Keynote speech entitled "Redefining Research Ethics for the AI Era: Challenges, Choices, and Change" by Dr. Fathey Mohammed, Sunway University, Malaysia.			
10:20 – 10:30	Refreshment (ONSITE)			
10:30 – 13:15	Parallel Sessions			
	Mankathah Hall	Hall (1)	Hall (3)	Graduate Studies Hall
	11	11	11	11
13:15 – 13:30	Close and Distribute Certificates			
13:30 – 14:00	Lunch (ONSITE)			

Opening Ceremony & Conference Program of eSmarTA-2025

5-6 August 2025

Opening Ceremony and First Day Schedule

Tuesday: August 5th, 2025 (8:45 – 15:00: GMT+3), Mankathah Hall

08:00 – 08:45	Registration and Reception
08:45 – 08:50	Quran Kareem
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12:30 – 15:00	Parallel Sessions

Session I

Tuesday: August 5th, 2025 (12:15 – 15:00), Location: Mankathah Hall

Time	Paper ID	ONSITE Chaired by	Prof. Dr. Khaled Alsoufi
			Dr. Adel Alofairi
		ONLINE Chaired by	Dr. Abdulrazak Y. Alhababi
12:30– 12:45	50	Malware Detection Using Transfer Learning with ResNet-50: An Image-Based Approach <i>Hameed, Korami, Al-Wahabi, Al-Wajih, Rageh, Waleed, Mokhtar</i>	
12:45– 13:00	83	Enhancement of Scholarship Decisions Precision Using Support Vector Machine Algorithm <i>Al-Dilami, Almuaalemi, Redwan, Al-Zohairi, Mareh</i>	
13:00– 13:15	103	Developing a Specialized Question Answering Model for the Yemeni Middle School Curriculum Using NLP Techniques <i>Abdulqawi, Naji, Hasan, Abdullqawi, Aofairi</i>	
13:15 – 13:30	110	Environmental Condition Impacts On PV Systems In Yemen Based On Fuzzy Logic Technique: A Case Study <i>Alkebsi, Albouthigy</i>	
13:30– 13:45	114	Smart Information Systems for Enhanced Employee Performance <i>Amgad Saeed Khaled</i>	
13:45– 14:00	151	Arabic Sentiment Analysis Using Machine Learning: A Study of Reactions to 'What is Hidden is Greater... The Flood' <i>Muneer Alsurori, Salah Alhagree...</i>	
14:00 – 14:15	85	Designing and Simulating an MPPT Solar Charger Using Machine Learning <i>Al-Wazer, Al-Sharif</i>	
14:15 – 14:30	95	Hybrid Time Series Forecasting for Semiconductor Demand: A Comparative Analysis of Prophet-Based Ensemble Models for Smooth and Erratic Demand Patterns <i>Haidarah, Lim, Al-Huda</i>	
14:30 – 14:45	104	The AI Revolution in Industry: A Review of Its Usage in Reverse Logistics Returns Prediction <i>Alkhorasani, Alawag</i>	
14:45-15:00	139	Phishing Attack Detection Using Whale Optimization Algorithm-Based Feature Selection <i>Mosleh Abualhaj, Sumaya Al-Khatib, Alhamza Alalousi, Mohammad Hiari and Mahran Al Zyoud</i>	

Session II

Tuesday: August 5th, 2025 (12:15 – 14:45), Location: Hall (1)

Time	Paper ID	ONSITE Chaired by	Dr. Eiad Almekhlafi
			Eng. Ahlam Enan
		ONLINE Chaired by	Dr. Abdu Saif
			Dr. Abdullah Almogahed
12:30– 12:45	7	<i>EHEIM: A New Approach for Mining High Utility Itemsets from Quantitative Databases</i> <i>A. Younis, M. Hayder, A. Ghaib, A. Abdul Jabbar</i>	
12:45– 13:00	15	<i>Improving Breast Cancer Prediction Using Adaptive Synthetic Sampling: A Study on the Coimbra Dataset</i> <i>Alsabry, Shujaaddeen, Mosleh</i>	
13:00– 13:15	17	<i>Enhanced Crack Detection with Limited Annotations: A Mixed Supervision Algorithm With Multi Attention Network</i> <i>Al-Maqtari, Peng, Al-Huda, Al-Antari, Algburi</i>	
13:15 – 13:30	20	<i>Solar Panel Dust Detection: An Efficacy Analysis and Optimization using Deep Learning based Techniques</i> <i>Aslam, Hussain, Iqbal, Yasir, Tripura</i>	
13:30– 13:45	23	<i>Enhancing Startup Success Prediction Using Optimized Bagging Tree Model with Bayesian Hyperparameter Tuning</i> <i>Algawani, Alsabry</i>	
13:45– 14:00	28	<i>Are Machine Learning Approaches Bringing an End to Empirical Models? Case of reference evapotranspiration and relative humidity</i> <i>Elhachimi, Belaqqiz, Khabba</i>	
14:00 – 14:15	42	<i>Heart Disease Classification Using Machine Learning Techniques: An Impact Analysis of GridSearchCV-based Optimization</i> <i>Hussain, Yasir, Iqbal, Tripura, Aslam.</i>	
14:15 – 14:30	55	<i>Optimized Machine Learning Approach for Breast Cancer Detection Using ADASYN and Feature Selection</i> <i>Jasim, Jasim, Ibrahim</i>	
14:30 – 14:45	77	<i>SHAP-Based Explainable Machine Learning Framework for Interpreting SHCC Mix Design Parameters</i> <i>A. Al-Hammadi, Alhuda, Algburi, Al-Antari</i>	
14:45 – 15:00	85	<i>Designing and Simulating an MPPT Solar Charger Using Machine Learning</i> <i>Al-Wazer, Al-Sharif</i>	

Session III

Tuesday: August 5th, 2025 (12:15 – 15:00), Location: Hall (3)

Time	Paper ID	ONSITE Chaired by	Dr. Abdulbaset AlEdreesi
		ONLINE Chaired by	Dr. Saeed Alsamhi
			Dr. Redhwan Saleh
12:30– 12:45	49	Advancements and Challenges in VTOL UAVs Configurations and Emerging Trends <i>Alqudsi, Sulaiman</i>	
12:45– 13:00	79	Optimizing Residual Signal Analysis for Fault Detection in Industrial Robots with SSA and Deep Learning <i>Algburi, M. Sowoud, Al-Huda, Al-Barashi, Alsayah, A. Al-Antari</i>	
13:00– 13:15	111	AI-Driven Aerial Corrosion Detection: Capabilities, Limitations, and Future Directions. <i>Alharbi, Alqudsi, Alharbi</i>	
13:15 – 13:30	132	Advancements in Robotic Arm Technologies: Precision, Intelligence, and Cross-Sector Applications <i>Saleh, Alqudsi, Al-Hajj, Abdullah, Nasser, Amrani</i>	
13:30– 13:45	147	Precision Tracking for Steer-by-Wire Systems Based on Fast Integral Terminal Sliding Mode Control <i>Alturky, Khawwaf</i>	
13:45– 14:00	155	Motion Tracking with Kalman Filter Prediction and Measurement Update for Robust Position Estimation <i>Chame, Saif, Ergün.</i>	
14:00 – 14:15	181	Advances in Error Compensation for Robotic Manipulators: A Systematic Review from Geometric Calibration to AI-Driven Hybrid Control <i>Saleh, Nasser, Abdullah.</i>	
14:15 – 14:30	133	Refactoring Approaches for Improving Software Flexibility <i>Almogahed, Othman, Mahdin, Qasim, Alawadhi, Al-Jamili, Omar, Obaid Barraood, Gilal.</i>	
14:30 – 14:45	171	Smart Surveillance: Real-Time Shoplifting Detection Using Deep Learning and YOLOv8 <i>J, Singh, Suntwal, Al-Dois, Alsamhi</i>	
14:30 – 14:45	107	Deep Learning Analysis of Satisfaction and Dissatisfaction Levels in Arabic, Hebrew, and English Responses to the Gaza Ceasefire on YouTube <i>Abdulqawi, Naji, Hasan, Alofairi</i>	
15:00-15:15	131	Enhancing Intrusion Detection Using Dragonfly Algorithm-Based Feature Selection and Extra Trees for Classification <i>Mosleh Abualhaj, Hani Al-Mimi, Ali Al-Allawee, Qusai Shambour and Mohammed Anbar</i>	

Session IV

Tuesday: August 5th, 2025 (12:15 – 14:45), Location: Graduate Studies Hall

Time	Paper ID	ONSITE Chaired by	Dr. Ayedh Alshobati
			Dr. Nada Al-Humidi
		ONLINE Chaired by	Dr. Akrem Almohamdi
			Dr. Nabel Mohammed
12:30– 12:45	22	A REVIEW OF QUANTUM INTERNET ARCHITECTURE <i>Abdulaziz, Al-Hussaini, Abdulrazzak</i>	
12:45– 13:00	54	Theoretical Framework for Efficient UV-Relay Selection in IoUT Using Hybrid NN-GA Model with MCDM Approach <i>Sayed Ali, A. Saeed, Khider Eltahir, Barakat, Saeed</i>	
13:00– 13:15	67	Tri-Band Circular Microstrip Patch Antenna with Slits and Multilayered Substrate for 5G mmWave Communications <i>Abdo, Gaid, Saeed, Saeed, Alomari</i>	
13:15 – 13:30	115	Design of a Wideband Circular Microstrip Patch Antenna for Ka-Band 5G Wireless Communications <i>Abdo, Abdalwali, Gaid, Mohammed, Alomari, Saeed, Saeed</i>	
13:30– 13:45	120	Microstrip Antenna Design for W-Band with Enhanced Return Loss Performance Using Slots and Parasitic Elements <i>Alsolihi, Gaid, Abdo, Saeed, Alomari, Saeed</i>	
13:45– 14:00	179	Alsamhi, Nashwan, Al-Qatf, Saif, Curry, Kumar. When SemCom Meets Drones for Supporting 6G: Drone Dataspace Use Case <i>Alsamhi, Nashwan, Al-Qatf, Saif, Curry, Kumar</i>	
14:00 – 14:15	59	Commencing Mobility As A Service (Maas) Platform for the Rural Passengers of Trans Banyumas, Indonesia <i>Permatasari, Romadlon</i>	
14:15 – 14:30	89	User-Centered Design and Evaluation of a Mobile Mental Health App for Stress Management and Relaxation <i>Alam, Smaron, Islam, Halder, Islam, Amin</i>	
14:30 – 14:45	105	Enhancing University Admissions through Scalable and Fair Machine Learning Models: A Case Study from Yemeni Universities <i>Yousef, Ghallab, Alameri, Al-Dowail, Al-Taweel, Al-Adimi</i>	
14:45 – 15:00	193	Supply Chain Management in Yemeni Food Industry: Current Issues and Blockchain Technology as a Solution <i>Hatim, S. A. Gaid, Bazel</i>	

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Session I

Wednesday: August 6th, 2025 (10:30 – 13:00), Location: Mankathah Hall

Time	Paper ID	ONSITE Chaired by	Prof. Dr. Naji Al-Ashwal
			Dr. Eiad Almekhlafi
		ONLINE Chaired by	Dr. Abdulrazak Y. Alhababi
10:30 – 10:45	195	<i>Detecting and Identifying Low-Rate Data Exfiltration Over DNS Protocol</i> <i>Algaolahi, Makarem, Alamri, Hasan.</i>	
10:45 – 11:00	190	<i>SDN and NFV: A State-of-the-Art Comparative Study of Architectures, Techniques, and Applications</i> <i>Mahmood Molhi, Abdulrahman Abutaleb, Thabit Zahary</i>	
11:00 – 11:15	184	<i>New Approach for Network Threat Detection and Prevention Using Real-time Data Analysis and Deep Learning</i> <i>Abdulrahman Abutaleb, Zahary, Althor, Homid, Alammari, Al-Watary, Rafeeq, Al Zubeiri</i>	
11:15 – 11:30	182	<i>Advanced in UAV Networks: Perspectives on Communication, Protocols, Offloading Strategies, and Security: A Review</i> <i>Abdulrahman Abutaleb, Zahary</i>	
11:30 – 11:45	180	<i>A Hybrid SPN–Feistel Block Cipher with Dynamic Round Keys</i> <i>Algaradi</i>	
11:45 – 12:00	177	<i>A Comparative Study for Yemeni Poets Detection Using TEXT-CNN and RNN-LSTM Text Classification</i> <i>Alqasemi, F. Assarwie, Faris Aldafer, Ahmed</i>	
12:00 – 12:15	162	<i>Sentiment Analysis of Pro-Palestine Advocacy in U.S. Universities through YouTube Comments Using Artificial Intelligence</i> <i>Ayedh Abdulaziz Mohsen, Salah Alhaggee,.....et</i>	
12:15 – 12:30	109	<i>AlphaFold-Based Protein-Protein Interaction Prediction Methods Classification</i> <i>Faisal, Alofairi, Abdulaziz Mohsen</i>	
12:30 – 12:45	123	<i>MultiheadSelfAttention vs. Traditional Encoders: A Benchmark Study on Precision and Recall in Tajweed Recognition</i> <i>Ala'A Alawdi</i>	
12:45 – 13:00	124	<i>Navigating GenAI in Malaysian Universities: Use, Problems, and Challenges</i> <i>Al-Kumaim, Hassan, Mohammed, Saleh</i>	
13:00 – 13:15	128	<i>Critical_TSA: Twitter Sentiment Analysis in Critical Event Using Python</i> <i>Alturaiqi, Alqashaami, Ibrahim</i>	

Session II

Wednesday: August 6th, 2025 (10:30 – 13:00), Location: Hall (1)

Time	Paper ID	ONSITE Chaired by	Dr. Redwan Alnakhalani
			Dr. Adel Alofairi
		ONLINE Chaired by	Dr. Abdullah Almojahed
10:30 – 10:45	24	Securing Digital Images: A Review of Modern Steganographic Techniques <i>Mejbel Hammad, Smaoui, Hashim, Fakhfakh</i>	
10:45 – 11:00	30	Investigating the Influential Role of Determinants Affecting the Acceptance of Cryptocurrency <i>Raweh</i>	
11:00 – 11:15	32	Real-Time Phishing Attack Detection Using Machine Learning <i>Alhemyari, Hassan, Saeed, Alselwi, Alhemyari</i>	
11:15 – 11:30	38	Enhancing DDoS Detection in Software-Defined Networking with Explainable Ensemble Models: A Comprehensive Approach Using SHAP Values <i>Radhwan A. A. Saleh, Abdulsalam F. A. Al-Bashiri and Bothina A. Q. Saleh</i>	
11:30 – 11:45	53	Hybrid optical color-image encryption via Computational ghost imaging based orthogonal patterns <i>Alnidawi, Sagheer</i>	
11:45 – 12:00	64	Enhancing Cybersecurity in Cyber-Physical Systems: an Explainable AI Approach for Intrusion Detection <i>Abbas Jasim Al-Hchaimi, Ali Hussien, Raad Muhsen, Mohammed, Ali Abd Alradha Alsaïdi, Yousif Alhasnawi, Adnan Shareef</i>	
12:00 – 12:15	84	Enhancing Real-Time Detection of Distributed Denial of Service (DDoS) Attacks on IoT Infrastructure <i>Abdel Wahed, Halasa, Alzboon</i>	
12:15 – 12:30	116	DStor: Blockchain-Driven IPFS Solution for Decentralized Storage <i>Avesheak, Alvi, Era</i>	
12:30 – 12:45	117	ANOMALY DETECTION SYSTEM FOR SECURE CLOUD COMPUTING ENVIRONMENT USING MACHINE LEARNING <i>Hussein, Mohammed, Naji, Saeed, Al Selwi</i>	
12:45- 13:00	166	A Comprehensive Review of Machine Learning- Based Approaches for Malware Detection <i>Faruk Ahmed, Md. Khaled Hasan and Syada Tasmia Alvi</i>	
13:00- 13:15	175	Spam Feature Selection Using Harris Hawks Optimization Algorithm <i>Adeeb Alsaaidah, Hani Al-Mimi, Ahmad Abu-Shareha, Mosleh Abualhaj and Mahran Al Zyoud</i>	

Session III

Wednesday: August 6th, 2025 (10:30 – 13:00), Location: Hall (3)

Time	Paper ID	ONSITE Chaired by	Dr. Nada Al-Humidi
			Eng. Ahlam Enan
		ONLINE Chaired by	Dr. Redhwan Saleh
10:30 – 10:45	37	<i>A Supervised Lightweight and Efficient U-network for Skin Lesion Segmentation</i> <i>Modestus Vicent and Bo Peng</i>	
10:45 – 11:00	63	<i>Exploring The Potential Of Virtual Reality For R Programming Education</i> <i>Saleh, Siew Peng</i>	
11:00 – 11:15	81	<i>Pushing the Limits of Real-Time Face Detection: A Comparative Analysis of YOLO11 Models</i> <i>Bokash, Almaktari, Humbe</i>	
11:15 – 11:30	113	<i>A Comprehensive Review of Transcranial Direct Current Stimulation (tDCS): Mechanisms, Cognitive Effects, Applications, and Future Directions</i> <i>Saleh, Nasser, Almakthathy, Al-Koshab</i>	
11:30 – 11:45	143	<i>Automatic Detection of Neurodevelopmental Disorders Using CryAcoustic Features</i> <i>El Omari, Belmajdoub, Minaoui, Saoudi</i>	
11:45 – 12:00	146	<i>Enhancing Diabetic Retinopathy Detection: A Deep Learning Approach with Advanced Image Preprocessing</i> <i>Siyah, El Belghiti, Minaoui, Belmajdoub, Saoudi</i>	
12:00 – 12:15	156	<i>A Survey on Camera-Based Measurement Systems: Techniques, Applications, and Challenges</i> <i>Saleh, Nasser, Al Mashwali, Taha, Al-Noor</i>	
12:15 – 12:30	165	<i>Smart Dermatological Diagnosis: Vision Transformer-Driven Skin Multi-Disease Detection System</i> <i>Dewangan, Bhiwapurkar, Kumar, Behera, Alsamhi</i>	
12:30 – 12:45	129	<i>Enhancing Arabic Dialect Classification with Deep Learning Techniques</i> <i>Alsaheel, Almatrafi, Alhumaid, Al-Shargabi, Ibrahim</i>	
12:45 – 13:00	153	<i>Flying High or Grounded: Sentiment Analysis on Airline Reviews using Naïve Bayes Algorithm</i> <i>Che Harun, Mohd Bahrin, Sa'Dan</i>	
13:00 – 13:15	170	<i>DistilBERT Meets Diagnosis: Multi-Class Disease Classification from Noisy Medical Transcriptions</i> <i>Litoriya, Kumar, Alsamhi, Behera</i>	

Session IV

Wednesday: August 6th, 2025 (10:30 – 13:00), Location: Graduate Studies Hall

Time	Paper ID	ONSITE Chaired by	Dr. Mohammed Alnaham
			Dr. Abdulbaset AlEdreesi
		ONLINE Chaired by	Dr. Nabel Mohammed
10:30 – 10:45	25	Security and Privacy Enhancement in 6G IoT Devices Using Blockchain <i>Saeed, Saeed, Ahmed, Ahmed, Elbasheir, Gaid, Ali</i>	
10:45 – 11:00	57	A Comprehensive Survey for the IoT Security challenges and mitigation techniques <i>Ali Maodah, Alhomdy, Thabit, Rajeh</i>	
11:00 – 11:15	61	Mitigating Risks in Smart Construction: Integrating Emerging Technologies for a Sustainable Future <i>Ahmed Al-Azazi, Mohsen Alawag, Ali Amrani, Mohyialdin, Alezi, Qasem</i>	
11:15 – 11:30	86	Real-time monitoring and optimization of energy consumption in smart buildings: case of Hospital <i>Benmessaoud, Boukhedouma</i>	
11:30 – 11:45	119	Improving Medication Adherence in Elderly Patients Through IoMT-Enabled Smart Pill Dispensers: A Narrative Review <i>Rahmatia Azizatunnisa, and Ghazali.</i>	
11:45 – 12:00	125	Quality of Experience Performance Evaluation of IoT in 6G Systems <i>Hassan, Hamid, Hassan, Saeed, Saeed, Elbasheir</i>	
12:00 – 12:15	174	HarvestEdge: Energy Harvesting in UAV-Assisted Edge Networks for Sustainable Disaster <i>Saeed, Nurelmadina, Saeid, S. Elbasheir, Saeed, Osman</i>	
12:15 – 12:30	178	A Pervasive IoT-Cloud Architecture for Real-Time Temperature and Humidity Monitoring <i>Amrani, Khababa, Gherbi, Khababa, Touahria</i>	
12:30 – 12:45	191	Transfer learning and cross-linguistic generalization in multilingual hate speech detection: approaches and challenges <i>Albadani, Alsurori, Alsubari</i>	
12:45 – 13:00	186	Efficient High-Accuracy Casting Defect Detection with Multi-Scale Attention <i>Al-Sameai, Akay, Saleh</i>	
13:00 – 13:15	172	A Systematic Review of ChatGPT's Role in Advancing Research Methodologies Across Education, Healthcare, and Economics <i>Khababa, Khababa, Harun, Amrani</i>	

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المؤتمر الدولي الخامس للتقنيات الذكية الحديثة وتطبيقاتها 2025

The 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA-2025)

5-6 أغسطس، 2025



جامعة إب - مدينة إب

