



# Conference Program

## ISBCom

1<sup>st</sup> International Conference on Intelligent  
Systems, Blockchain, and Communication  
Technologies

Sharm El-Sheikh, Egypt

July 13-14, 2024



## Program Summary

### In-Person Sessions

*All timing follows Egyptian Standard Time*

*Day-1*

*Venue: JAZ Mirabel Resort*

*Saturday, July 13, 2024*

**Venue Room: Al Maleka Meeting Room**

08:00 - 14:00	Registration
08:00 - 08:05	Conference Opening
08:05 - 09:00	<b>Keynote:</b> Dr. Latif Ladid
09:00 - 09:45	<b>Keynote:</b> Dr. Eman El-Sheikh
09:45 - 10:30	<b>Keynote:</b> Dr. Fahmi Khalifa
10:30 -10:45	Break
10:30 - 11:15	<b>Keynote:</b> Dr. Ahmed Ammar
11:30 – 12:00	<b>Keynote:</b> Mr. Ahmed Youssef
12:00 -13:00	Lunch Break (The hotel is all-inclusive, please book your room in the hotel)
13:00 - 15:00	In-Person Technical Session – 1

### Online Sessions

*All timing follows Egyptian Standard Time*

*DAY-2*

*Sunday, July 14, 2024*

[Google Meet Link-1](#)

**For online keynote speeches and sessions below**

[Google Meet Link-2](#)

**For sessions given below**

08:00 - 08:30	<b>Keynote:</b> Dr. Khaled Negm	
08:30 - 09:00	<b>Keynote:</b> Dr. Rasha Gargees	
09:00 - 10:45	Online Technical Session – 1	Online Technical Session – 2
10:45 - 12:30	Online Technical Session – 3	Online Technical Session – 4
12:00 - 14:00	<b>Online Workshop:</b> Introduction to IPv6 and its Benefits <a href="#">Google Meet Link-3</a>	
12:30 - 13:00	Lunch Break	
13:00 - 13:30	<b>Keynote:</b> Dr. Muhammad Syafrudin	

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13:30 - 15:30	Online Technical Session – 5	Online Technical Session – 6
15:30 - 17:30	Online Technical Session – 7	Online Technical Session – 8

**Program Details**  
**In-Person Sessions**  
**DAY-1: Saturday, July 13, 2024**

<b>In-Person Technical Session-1</b> <b>Time: 13:00 - 15:00</b> <b>Session Chair: Dr. Kasem Khalil</b>	<b>Day-1</b> <b>July 13</b>
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Paper ID	Authors / Title
40	<b>Nyarko, David; Nwachukwu, Kelechi; Anthony, Anjolie; Nyarko, Kofi</b> ELT: Easy Label Trainer
41	<b>Elhenawy, Mohammed M; Ashqar, Huthaifa</b> Eyeballing Combinatorial Problems: A Case Study of Using Multimodal Large Language Models to Solve Traveling Salesman Problems
43	<b>Yasser, Ibrahim; Khalifa, Fahmi</b> Role of ERP as an integrative intelligent system for business Enterprises
47	<b>Abir F Ali; Omar Khaled</b> Using Blockchain and Smart Contracts to Secure Medical Data Management System
57	<b>Alhadidi, Taqwa I; Jaber, Ahmed; Jaradat, Shadi; Ashqar, Huthaifa; Elhenawy, Mohammed M</b> Object Detection using Oriented Window Learning Vision Transformer: Roadway Assets Detection
35	<b>Mohamed Abdel-Aziz</b> Water Quality Classification Using an Efficient Artificial Neural Network
64	<b>Eman Omar Soliman</b> Scalable Lightweight Privacy Scheme for SDN-Based Fog-IoT Networks
65	<b>Rasha Samir</b> Fiber to Everywhere in the Next Generation Broadband Networks

**Program Details**  
**Online Sessions**  
**DAY-2: Sunday, July 14, 2024**

<b>Online Technical Session-1</b> <b>Time: 09:00: - 10:45</b> <b>Session Chair: Dr. Bharat Bhushan and Dr. Ezgi Demir</b>	<b>Day-2</b> <b>July 14</b>
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Paper ID	Authors / Title
66	<b>Hasan, Lubna</b> Bilingualism and Artificial Intelligence: A Sociolinguistic Approach to Arab Heritage
78	<b>Hamadi, Nawal Qasim; Alsaadi, Mukhalad Maher ; Abbas, Zainab; Jabbar, Mrouge G</b> Using artificial intelligence to enhance family cohesion and promote positive social values

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84	<b>Alrubaye, Maryam Mahmood; Hameed, Alaa Ali; Jamil, Akhtar</b> Enhancing Human Age Detection: The Impact of Data Augmentation and Balancing on CNN Performance
72	<b>Saad, Ziad Ahmed; Sherif, Mohamed; Saeed, Omnia; M. Al-Emrany, Asmaa; Abdelmohsen, Maha</b> Using Machine Learning Models Based Rehabilitation Therapy to Classify Diabetic Frozen Shoulder Exercises
22	<b>Sadiq, Bareq ; Zwayyer, Mustafa Hussein; Farhan, Neamah</b> Artificial Intelligence Tools and Its Impact on Emerging Scientific Research Skills in the Humanities and Social Sciences
85	<b>Ahmed, Nada Mobark; Elfiky, Noha; Ahmedin, Ahmed; Ibrahim, Ameera; Hamad, Safwat; Abdel-Aziz , Mohamed</b> Leveraging Machine Learning to Assess Factors Influencing Undernourishment in Nigeria
68	<b>Akinniyi, Oluwatunmise; Dixon, Jose ; Khalifa, Fahmi; Saleh, Gehad ; Deabes, Wael</b> A Vision Transformer-based Intelligent System For Brain Tumor Diagnosis

<b>Online Technical Session-2</b> <b>Time: 09:00: - 10:45</b> <b>Session Chair: Dr. Kiran Sood</b>		<b>Day-2</b> <b>July 14</b>
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71	<b>Hesham, Momen; Zakaria, Ehab E; Abd Eltawab, Mohamed Essam; Hany, Mena</b> Assessing the Effects of Climate Change on Agricultural Productivity
61	<b>Gargees, Rasha</b> Scholarly Article Classification Leveraging DistilBERT and Transfer Learning
58	<b>Khalf, Khaleel Hassan</b> Using Artificial Intelligence Analytics to Understand Learning Behaviors and Improve Students Outcomes in E-Learning
73	<b>Khan, Andleeb; Nand, Parma; Bhushan, Bharat; Hameed, Alaa Ali; Jamil, Akhtar</b> Enhancing Intrusion Detection by Using Machine Learning
62	<b>Kumar, Avinash; Chaudhary, Meena</b> Portable Executable Analysis for Malware Detection for Reducing Risk
16	<b>Abdelhamid, Abeer; Akinniyi, Oluwatunmise ; Saleh, Gehad; Khalifa, Fahmi</b> Lung Disease Detection Using Scale-Invariant Weighted Ensemble Neural Architecture
81	<b>Bayrak, Şengül; Şen, Esad ; Arslanoğlu, Fatma Begüm; Kaya, Furkan; Tomarza, Sena Merve; Çakır, Furkan</b> A Mobile Application using MobileNetV2 for Classification of Skin Diseases

<b>Online Technical Session - 3</b> <b>Time: 10:45 - 12:30</b> <b>Session Chair: Dr. Ganesh Kumar</b>		<b>Day-2</b> <b>July 14</b>
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80	<b>Nady, Nada N</b> Beyond Words: BERT-Powered Insights into Suicide Risk via Social Media Posts
53	<b>Shaban, Warda Mohammed; Moustafa, Hossam; M. El-Seddek, Mervat</b> BCDM: A Novel AI-Based Model for Detection of Breast Cancer
60	<b>Khalil, Kasem; Kader Khan, MD Rahat; Mohaidat, Tamador Nadem; Bayoumi, Magdy</b> Enhanced Heart Attack Detection with Neural Networks
87	<b>Mrouge Ghani Jabbar</b> Semantics of the Arabic Language: Exploring Meaning Through Intelligent Machine Learning Algorithms

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59	<b>Shdefat, Ahmed Younes; Mostafa, Nour; Salman, Mohammad; Kotb, Yehia; ElSayed, Fahmi</b> Advancing Health Analytics: Random Forest Regression Models for Caloric Expenditure in Varied Activities
42	<b>Elhenawy, Mohammed M; Ashqar, Huthaifa</b> Question-Answering (QA) Model for a Personalized Learning Assistant for Arabic Language
88	<b>Qasim, Farah Mustafa; Abdullah Saleh Ali,Haneen; Word Salman,Maysoon; Hassan Al –Zarkani, Khalil</b> Using machine learning techniques to analyze historical texts: extracting information and patterns from historical documents
<b>Online Technical Session-4</b> <b>Time: 10:45 - 12:30</b> <b>Session Chair: Dr. Rasha Gargees and Dr. Marwa Ben Ali</b>	
	<b>Day-2</b> <b>July 14</b>
32	<b>Abdelhafeez, Maged Ali; El-Badawy, Hesham; Bahaa-Eldin, Ayman M.; Sobh, Mohamed</b> Enhancing Internet Of Vehicles Security: Advanced Intrusion Detection For Threat Detection And Mitigation
11	<b>Qian, Kun; Kheir, Mohamed</b> Investigating KAN-Based Physics-Informed Neural Networks For EMI/EMC Simulations
13	<b>Ulkhaleq Hussein, Alaa Abd</b> The Impact Of Artificial Intelligence Techniques On Developing The Abilities Of Materials Engineering Students In Problem Solving And Scientific Thinking
14	<b>Ulkhaleq Hussein, Alaa Abd</b> The Impact Of Simulation-Based Education On The Development Of Problem-Solving Skills And Strategic Thinking Among Students Of Arabic Language Departments In The Colleges Of Islamic Sciences In Iraq
15	<b>Ulkhaleq Hussein, Alaa Abd</b> The Impact Of Using Deep Learning Technology In Developing Smart Programs For Teaching Arabic To Non-Native Speakers
86	<b>Salman Abbas</b> Automated Grammar: Abed Employing Artificial Intelligence In Generating Correct Arabic Texts
20	<b>Abed, Israa Najm</b> A Qualitative Study Of English Language Teachers' Perceptions On Teaching English Language Through Artificial Intelligence In Public Education In Iraq
<b>Online Technical Session-5</b> <b>Time: 13:30 15:30</b> <b>Session Chair: Dr. Junaid Shuja</b>	
	<b>Day-2</b> <b>July 14</b>
34	<b>Jaradat, Shadi; Nayak, Richi; Elhenawy, Mohammed M; Ashqar, Huthaifa</b> Enhancing Traffic Crash Analysis with Fine-Tuned LLMs: A Social Media-Based Approach
25	<b>Talib, Ali; Abdullah, Zainab; Mahmoud, Hazem; Saleh, Yassin</b> Employing Artificial Intelligence Applications in the Service of Islamic Religion and Belief
27	<b>Ajaj, Yusra Sh</b> Leveraging AI for Disaster Management: A Comprehensive Review of Applications and Challenges
31	<b>Darwich, Mahmoud; Bayoumi, Magdy</b> Predictive Caching Dynamics: Advancing Video Streaming with Deep Learning
24	<b>Abadalhady, Wafa H; Ibrahim Jasim, Hawraa; Kadem Abdulreda, Sarah; Saad Khaled, Israa</b> Artificial Intelligence from an Islamic Perspective: Communication Applications as an Example
63	<b>Pandey, Shraiayash; Alazawi, Esraa Mohammed ; Pandey, Surendra; Bhushan, Bharat; Baniya, Pashupati; Jamil, Akhtar</b> A Comprehensive Framework for Electronic Medical Records (EMRs) Leveraging Blockchain Technology

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74	<b>Khan, Andleeb; Nand, Parma; Bhushan, Bharat; Alazawai , Esraa Mohammed ; Jamil, Akhtar</b> A Comprehensive Review of Block Chain Based Multi Factor Authentication	
<b>Online Technical Session-6</b> <b>Time: 13:30 15:30</b> <b>Session Chair: Dr. Nelly Elsayed and Dr. Saima Jabeen</b>		<b>Day-2</b> <b>July 14</b>
30	<b>ElSayed, Zag; Elsayed, Nelly; Abdelgawad, Ahmed</b> Traffic and Analysis of Small Office and Home Internet of Things Device Security	
8	<b>Gomaa, Ibrahim</b> Blockchain-based Multi-tier IoT-EHRs System: A Security Analysis	
23	<b>Al-Fatlawi, Haleem Abbas</b> Islamic Jurisprudence's Position on Guaranteeing Damages Resulting from the Use of Artificial Intelligence in Medical Fields	
77	<b>Nabil, Mohamed Haytham; Elersy, Wael Farouk</b> a frame work for detecting xss attacks with machine learning	
51	<b>Fathi, Malak; Ghantous, Milad; El Aasser, Minar</b> GuardedLearn : Safeguarding Federated Learning with Robust Defenses and Privacy Preserving Mechanisms	
52	<b>ElHarras, Sama; Ghantous, Milad; Elaasser, Minar</b> Use of AI and Intelligent Algorithms to detect and prevent Network-based Attacks	
50	<b>Hegazy, Aya A; Ghantous, Milad; El-Aasser, Minar</b> Analyzing the effect of feature selection algorithms on ML classifiers	
67	<b>Phyllis Okwan; Lynette Jackson</b> <b>Technical Analysis Application to Finance Education for Low-Income Families</b>	
<b>Online Technical Session-7</b> <b>Time: 15:30 17:30</b> <b>Session Chair: Dr. Zag ElSayed</b>		<b>Day-2</b> <b>July 14</b>
44	<b>Abdullah, Sana; Salem , Salma; Ghantous, Milad; SOUBRA, Hassan</b> COSMIC-REC: A Recursive COSMIC Functional Size Measurement Tool for Arduino IoT Edge Devices	
38	<b>Bishay, Mireille R; Salem, Salma; Ghantous, Milad; SOUBRA, Hassan</b> CosmiCode: Automated COSMIC Measurement Tool for Arduino using RegEx and NLP	
18	<b>Saafan, Asmaa Mahmoud</b> Performance evaluation of Large-Scale Path Loss Models in coexistence between 5G Networks and Fixed Services (FS)	
70	<b>Adib, Meray Ashraf; Ghoneimy, Mohamed</b> Automated physician scheduling using different meta-heuristic algorithms	
54	<b>Elghitani, Fadi; Fayed, Ibrahim</b> UAV control in multi-access edge computing using Markov Decision Process	
37	<b>Ashqar, Huthaifa; Elhenawy, Mohammed M</b> Transformer Models in Education: Summarizing Science Textbooks with AraBART, MT5, AraT5, and mBART	
36	<b>Tami, Mohammad; Ashqar, Huthaifa; Elhenawy, Mohammed M</b> Automated Question Generation for Science Tests in Arabic Language Using NLP Techniques	
39	<b>Fayed, Kareem Ashraf; Ghantous, Milad</b> An NLP-Based WhatsApp Group Chat Summarizer	

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<b>Online Technical Session-8</b> <b>Time: 15:00 - 17:00</b> <b>Session Chair: Dr. Deepika Kumar</b>		<b>Day-2</b> <b>July 14</b>
<b>17</b>	<b>Sabeeh Hamood, Anfal; Lazim Hassan Al Ghareeb, Sanaa; Zaid, Bilal Hameed</b> Comparison Between the Performance of Human Translators and AI-Supported Applications	
<b>49</b>	<b>Deabes, Wael; Khalifa, Fahmi; Abdel-Hakim, Alaa; Bouazza, Kheir Eddine</b> Advancing ECT Imaging: Residual UNet Deep Neural Network Approach	
<b>75</b>	<b>Eid, Mohamed Bahaa; Hany, Mena; Zakaria, Ehab E</b> Multimodal Lie Detection	
<b>76</b>	<b>Abdelmagueed, Mohamed Khaled; Gomaa, Wael Hassan; Ashraf, Abdelaziz</b> Evaluating Vision Encoder Performance in Image Captioning: A Comparative Analysis	
<b>29</b>	<b>Ahmed, Iyad Abdul Jabbar</b> The impact of artificial intelligence on teaching Arabic grammar: an analytical study	
<b>7</b>	<b>Abdelaziz, Omar Abdelaziz Morgan; Shehata, Mohamed</b> A Novel Bounding Box Regression Method for Single Object Tracking	
<b>6</b>	<b>Muhammad Gulfam; Cheryl Seals; Adriana Vargas-Nordbeck; Gerry Dozier</b> Lightweight Deep Convolutional Neural Network for Pavement Crack Recognition with Explainability Analysis	
<b>33</b>	<b>Abdeltawab, Hisham; Jani, Md Rafsan ; Hassan, Md Rakibul ; Khalifa, Fahmi</b> A Hybrid Adversarial-TransUnet Architecture for Improving LV Segmentation Using Cardiac Cine Images	