

Scientific research published during the year 2024

#	Title	Author(s)	Journal/Conference	Link/DOI
1	Elevating Survivability in Next-Gen IoT-Fog-Cloud Networks: Scheduling Optimization With the Metaheuristic Mountain Gazelle Algorithm	Maashi, Mashael; Alabdulkreem, Eatedal; Maray, Mohammed; Shankar, K; Darem, Abdulbasit A; Alzahrani, Abdulrahman; Yaseen, Ishfaq; ,	IEEE Transactions on Consumer Electronics	https://ieeexplore.ieee.org/abstract/document/10463533/
2	DECODING THE DECEPTION: A COMPREHENSIVE ANALYSIS OF CYBER SCAM VULNERABILITY FACTORS	Darem, Abdulbasit; Alhashmi, Asma; Sheatah, Huda K; Mohamed, Imen B; Jabnoun, Chams; Allan, Firas M; Dhibi, Aida; Elmourssi, Doaa M;	Journal of Intelligent Systems and Applied Data Science	https://jisads.com/index.php/1/article/view/19
3	Enhancing extractive text summarization using natural language processing with an optimal deep learning model	Hassan, Abdulkhaleq QA; Al-onazi, Badriyya B; Maashi, Mashael; Darem, Abdulbasit A; Abunadi, Ibrahim; Mahmud, Ahmed;	AIMS Mathematics	http://www.aimspress.com/aimspress-data/math/2024/5/PDF/math-09-05-616.pdf
4	New Scheduling Scheme in Cellular V2X Communication	Mansouri, Wahida Ali; Askany, Somia; Othman, Salwa Hamda; Darem, Abdulbasit A;	Engineering, Technology & Applied Science Research	https://www.etasr.com/index.php/ETASR/article/view/7275
5	Ransomware Early Detection Techniques	Alhashmi, Asma A; Darem, Abdulbasit A; Alshammari, Ahmed B; Darem, Laith A; Sheatah, Huda K; Effghi, Rachid;	Engineering, Technology & Applied Science Research	https://etasr.com/index.php/ETASR/article/view/6915
6	Empowering Retail through Advanced Consumer Product Recognition using Aquila Optimization Algorithm with Deep Learning	Alghamdi, Mohammed; Mengash, Hanan Abdullah; Aljebreen, Mohammed; Maray, Mohammed; Darem, Abdulbasit A; Salama, Ahmed S;	IEEE Access	https://ieeexplore.ieee.org/abstract/document/10528273/
7	Exploring Android Obfuscators and Deobfuscators: An Empirical Investigation	Ebad, Shouki A; Darem, Abdulbasit A;	Electronics	https://www.mdpi.com/2079-9292/13/12/2272
8	Fair resource optimization for cooperative non-terrestrial vehicular networks	Dutta, Ashit Kumar; Alruwais, Nuha; Alabdulkreem, Eatedal; Negm, Noha; Darem, Abdulbasit A; Al Duhayyim, Mesfer; Khan, Wali Ullah; Nauman, Ali;	Computer Networks	https://www.sciencedirect.com/science/article/pii/S1389128624004717

9	An Automated Quasi-Identification (QID) for Re-identification	Roslan, Saida Nafisah; A Hamid, Isredza Rahmi; Darem, Abdulbasit A; Rahim, Nordiana;	International Conference on Soft Computing and Data Mining	https://link.springer.com/chapter/10.1007/978-3-031-66965-1_41
10	Energy efficiency optimization for 6G multi-IRS multi-cell NOMA vehicle-to-infrastructure communication networks	Maashi, Mashael; Alabdulkreem, Eatedal; Negm, Noha; Darem, Abdulbasit A; Al Duhayyim, Mesfer; Dutta, Ashit Kumar; Khan, Wali Ullah; Nauman, Ali;	Computer Communications	https://www.sciencedirect.com/science/article/pii/S0140366424002561
11	An Advanced Deep Learning Approach for Precision Diagnosis of Cotton Leaf Diseases: A Multifaceted Agricultural Technology Solution	Nagarjun, Ashwathnarayan; Manju, Nagarajappa; Darem, Abdulbasit A; Siddesha, Shivarudraswamy; Yahya, Abdulsamad E; Alhashmi, Asma A;	Engineering, Technology & Applied Science Research	https://www.etasr.com/index.php/ETASR/article/view/7535
12	Deep learning solutions for inverse problems in advanced biomedical image analysis on disease detection	Alshardan, Amal; Mahgoub, Hany; Alruwais, Nuha; Darem, Abdulbasit A; Almukadi, Wafa Sulaiman; Mohamed, Abdullah;	Scientific Reports	https://www.nature.com/articles/s41598-024-69415-2
13	Defining and Analyzing New Classes Associated with (λ, γ) -Symmetrical Functions and Quantum Calculus	Louati, Hanen; Al-Rezami, Afrah Y; Darem, Abdulbasit A; Alsarari, Fuad;	Mathematics	https://search.proquest.com/openview/86c5015430fd47acf2244c733ba564f9/1?pq-origsite=gscholar&cbl=2032364
14	Class imbalanced data handling with cyberattack classification using Hybrid Salp Swarm Algorithm with deep learning approach	Alabduallah, Bayan; Maray, Mohammed; Alruwais, Nuha; Alabdan, Rana; Darem, Abdulbasit A; Alallah, Fouad Shoie; Alsini, Raed; Yafoz, Ayman;	Alexandria Engineering Journal	https://www.sciencedirect.com/science/article/pii/S1110016824009499
15	Enhancing smart city IoT communication: A two-layer NOMA-based network with caching mechanisms and optimized resource allocation	Alkhalidi, Tareq M; Darem, Abdulbasit A; Alhashmi, Asma A; Al-Hadhrani, Tawfik; Osman, Azza Elneil;	Computer Networks	https://www.sciencedirect.com/science/article/pii/S1389128624006893
16	Mathematical Modelling and Simulation of Traffic Flow Control in Urban Environments using Fuzzy Deep Neural Network with Optimization Algorithm	Alshardan, Amal; Maashi, Mashael; Alanazi, Sultan M.; Darem, Abdulbasit A; Mahgoub, Hany; Alliheedi, Mohammed A; Alshammeri, Menwa;	IEEE Access	https://ieeexplore.ieee.org/abstract/document/10723283/
17	Integrating Optimal Deep Learning With Natural Language Processing For Arabic Spam And Ham Tweets Recognition	Al-Shathry, Najla I; Alghamdi, Mohammed; Al-Dobaian, Abdullah Saad; Darem, Abdulbasit A; Alotaibi, Shoayee Dlaim; Almana, Manar; Alghamdi, Bandar M; Sorour, Shaymaa;	FRACTALS (fractals)	https://ideas.repec.org/a/wsi/fracta/v32y2024i09n10ns0218348x25400523.html

18	Beyond Technical Barriers: A Multidimensional Conceptual Framework for Understanding and Countering Cyber Scam Susceptibility	Darem, Abdulbasit A; Alkhaldi, Tareq M; Alahmari, Muteeb; Alhashmi, Asma A; Alashjaee, Abdullah M; Alanazi, Sultan M; Ebad, Shouki A;	International Journal of Human-Computer Interaction	https://www.tandfonline.com/doi/abs/10.1080/10447318.2024.2415750
19	Optimizing resource allocation for enhanced urban connectivity in LEO-UAV-RIS networks	Darem, Abdulbasit A; Alkhaldi, Tareq M; Alhashmi, Asma A; Mansouri, Wahida; Alghawli, Abed Saif Ahmed; Al-Hadhrani, Tawfik;	Journal of King Saud University-Computer and Information Sciences	https://www.sciencedirect.com/science/article/pii/S1319157824003276
20	Application of ϕ -starlike and ϕ -convex functions under (u, v) -symmetrical constraints	Louati, Hanen; Al-Rezami, Afrah; Deniz, Erhan; Darem, Abdulbasit; Szasz, Robert; El Manar, Tunis;	AIMS Mathematics	https://www.aimspress.com/aimspress-data/math/2024/12/PDF/math-09-12-1591.pdf
21	Cybersecurity in social networks: An ensemble model for Twitter bot detection	Abdulbasit A. Darem, Asma A. Alhashmi, Meshari H. Alanazi, Abdullah F. Alanezi, Yahia Said, Laith A. Darem, Maher M. Hussain, Abdulbasit A. Darem;	International Journal of Advanced and Applied Sciences	http://www.science-gate.com/IJAAS/2024/V11I11/1021833ijaas202411014.html
22	IoT-Driven Heart Disease Prediction with Intelligent Classifier and Squirrel Search Feature Selection	Darem, Abdulbasit A; Alohal, Manal Abdullah; Haj Hassine, Siwar Ben; Zaqibeh, Belal; Aborokbah, Majed; Salama, Ahmed S;	Fractals	https://www.worldscientific.com/doi/abs/10.1142/S0218348X25400055
23	Smart Surveillance: Advanced Deep Learning based Vehicle Detection and Tracking Model on UAV Imagery	Othman, Kamal M; Alzaben, Nada; Alruwais, Nuha; Maray, Mohammed; Darem, Abdulbasit A; Mohamed, Abdullah;	Fractals	https://www.worldscientific.com/doi/abs/10.1142/S0218348X25400274
24	A Decentralized Approach to Smart Home Security: Blockchain With Red-Tailed Hawk-Enabled Deep Learning	Alruwaili, Fahad F; Alohal, Manal Abdullah; Aljaffan, Nouf; Alhashmi, Asma A; Mahmud, Ahmed; Assiri, Mohammed;	IEEE Access	https://ieeexplore.ieee.org/abstract/document/10387428/
25	WSN-Assisted Consumer Purchasing Power Prediction via Barracuda Swarm Optimization-Driven Deep Learning for E-Commerce Systems	Almuqren, Latifah; Alruwais, Nuha; Alhashmi, Asma A; Alzahrani, Ibrahim R; Salih, Nahla; Assiri, Mohammed; Shankar, K;	IEEE Transactions on Consumer Electronics	https://ieeexplore.ieee.org/abstract/document/10477271/
26	DECODING THE DECEPTION: A COMPREHENSIVE ANALYSIS OF CYBER SCAM VULNERABILITY FACTORS	Darem, Abdulbasit; Alhashmi, Asma; Sheatah, Huda K; Mohamed, Imen B; Jabnoun, Chams; Allan, Firas M; Dhibi, Aida; Elmourssi, Doaa M;	Journal of Intelligent Systems and Applied Data Science	https://jisads.com/index.php/1/article/view/19

27	Ransomware Early Detection Techniques	Alhashmi, Asma A; Darem, Abdulbasit A; Alshammari, Ahmed B; Darem, Laith A; Sheatah, Huda K; Effghi, Rachid;	Engineering, Technology & Applied Science Research	https://etasr.com/index.php/ETASR/article/view/6915
28	Enhancing cybersecurity in cloud-assisted Internet of Things environments: A unified approach using evolutionary algorithms and ensemble learning	Aljebreen, Mohammed; Mengash, Hanan Abdullah; Mahmood, Khalid; Alhashmi, Asma A; Salama, Ahmed S;	AIMS Mathematics	https://www.aimspress.com/aimspress-data/math/2024/6/PDF/math-09-06-763.pdf
29	Bayesian optimization with deep learning based pepper leaf disease detection for decision-making in the agricultural sector	Alhashmi, Asma A; Alohal, Manal Abdullah; Ijaz, Nazir Ahmad; Khadidos, Alaa O; Alghushairy, Omar; Sayed, Ahmed;	AIMS Mathematics	http://www.aimspress.com/aimspress-data/math/2024/7/PDF/math-09-07-816.pdf
30	An Advanced Deep Learning Approach for Precision Diagnosis of Cotton Leaf Diseases: A Multifaceted Agricultural Technology Solution	Nagarjun, Ashwathnarayan; Manju, Nagarajappa; Darem, Abdulbasit A; Siddesha, Shivarudraswamy; Yahya, Abdulsamad E; Alhashmi, Asma A;	Engineering, Technology & Applied Science Research	https://www.etasr.com/index.php/ETASR/article/view/7535
31	Distributed Multiclass Cyberattack Detection using Golden Jackal Optimization with Deep Learning Model for Securing IoT Networks	Alrayes, Fatma S; Nemri, Nadhem; Aljaffan, Nouf; Alshuhail, Asma; Alhashmi, Asma A; Mahmud, Ahmed;	IEEE Access	https://ieeexplore.ieee.org/abstract/document/10634496/
32	Enhancing smart city IoT communication: A two-layer NOMA-based network with caching mechanisms and optimized resource allocation	Alkhalidi, Tareq M; Darem, Abdulbasit A; Alhashmi, Asma A; Al-Hadhrami, Tawfik; Osman, Azza Elneil;	Computer Networks	https://www.sciencedirect.com/science/article/pii/S1389128624006893
33	Beyond Technical Barriers: A Multidimensional Conceptual Framework for Understanding and Countering Cyber Scam Susceptibility	Darem, Abdulbasit A; Alkhalidi, Tareq M; Alahmari, Muteeb; Alhashmi, Asma A; Alashjaee, Abdullah M; Alanazi, Sultan M; Ebad, Shouki A;	International Journal of Human-Computer Interaction	https://www.tandfonline.com/doi/abs/10.1080/10447318.2024.2415750
34	Optimizing resource allocation for enhanced urban connectivity in LEO-UAV-RIS networks	Darem, Abdulbasit A; Alkhalidi, Tareq M; Alhashmi, Asma A; Mansouri, Wahida; Alghawli, Abed Saif Ahmed; Al-Hadhrami, Tawfik;	Journal of King Saud University-Computer and Information Sciences	https://www.sciencedirect.com/science/article/pii/S1319157824003276
35	Enhancing Cybersecurity via Anomaly Recognition using Thermal Exchange Fractals Optimization with Deep Learning on IoT Networks	Alhashmi, Asma A; Alamro, Hayam; Aljebreen, Mohammed; Alghamdi, Mohammed; Alharbi, Abeer AK; Mahmud, Ahmed;	Fractals	https://www.worldscientific.com/doi/abs/10.1142/S0218348X25400353

36	Integrating Two-Tier Optimization Algorithm with Convolutional Bi-LSTM Model for Robust Anomaly Detection in Autonomous Vehicles	Alotaibi, Moneerah; Alohal, Manal Abdullah; Mahmood, Khalid; Alhashmi, Asma A; Alqurni, Jihad Saad; Alotaibi, Sultan Refa; Alzahrani, Ahmad A; Issaoui, Imène;	IEEE Access	https://ieeexplore.ieee.org/abstract/document/10817571/
37	DECODING THE DECEPTION: A COMPREHENSIVE ANALYSIS OF CYBER SCAM VULNERABILITY FACTORS	Darem, Abdulbasit; Alhashmi, Asma; Sheatah, Huda K; Mohamed, Imen B; Jabnoun, Chams; Allan, Firas M; Dhibi, Aida; Elmourssi, Doaa M;	Journal of Intelligent Systems and Applied Data Science	https://jisads.com/index.php/1/article/view/19
38	Advanced Deep Learning Approach for Smart Home Appliance Identification Using Recurrent Neural Networks with LSTM	Sana Abdelaziz Bkheet , Johnson I. Agbinya and Gamal Saad Mohamed Khamis.	MDPI, IOT	https://doi.org/10.3390/iot5040038
39	Prediction of Myocardial Infarction Complications using Gradient Boosting.	Gamal Saad Mohamed Khamis,Zakariya M. S. Mohammed,Sultan Munadi Alanazi, Ashraf F. A. Mahmoud,Faroug A. Abdalla and Sana Abdelaziz Bkheet	Engineering, Technology & Applied Science Research	DOI: https://doi.org/10.48084/etasr.9076
40	DECODING THE DECEPTION: A COMPREHENSIVE ANALYSIS OF CYBER SCAM VULNERABILITY FACTORS	Darem, Abdulbasit; Alhashmi, Asma; Sheatah, Huda K; Mohamed, Imen B; Jabnoun, Chams; Allan, Firas M; Dhibi, Aida; Elmourssi, Doaa M;	Journal of Intelligent Systems and Applied Data Science	https://ieeexplore.ieee.org/abstract/document/10463533/
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42	Leveraging Arabic Text Embedded in Images: Challenges and Opportunities in NLP Analysis	AWS ABU EID, Achraf Ben Miled, Ashraf FA Mahmoud, Faroug A Abdalla, Chams Jabnoun, Aida Dhibi, Firas M Allan, Mohammed Ahmed Elhossiny, Imen Ben Mohamed, Marwa Al Elghazawy, Majid A Nawaz, Salem Belhaj	Journal of Intelligent Systems and Applied Data Science	https://jisads.com/index.php/1/article/view/20

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44	Big Data Analytics and Cloud Computing: Implementation Issues and Effects	Mohammad Ayaz khan, Mohammed Abdul Mateen , Danish Manzoor	Journal of Emerging Technologies and Innovative Research JETIR. Country : Ahmedabad, India. ISSN : 2349-5162 (E)	https://www.jetir.org/papers/JETIR2402150.pdf
45	BLENDED LEARNING AND AUTONOMOUS LEARNING: THE OVERVIEW OF THE DIGITAL AGE OF LEARNING, LEARNER AND TEACHER INVOLVEMENT, AND DIGITAL SOURCES SCIENCE INTERNATIONAL	Mohammad Ayaz khan, Danish Manzoor, Mohammed Abdul Mateen , A Ali, R Farid	SCIENCE INTERNATIONAL	http://www.sci-int.com/pdf/638471450142233783.pdf
46	Implication of E-learning and AI Individualized Pedagogical Perspectives	Mohammad Ayaz khan, Danish Manzoor, Mohammed Abdul Mateen , A Ali, M Ismail, R Farid,	Journal of Electrical Systems	https://journal.esrgroups.org/jes/article/view/4074
47	Security Issues In Cloud Computing And Their Solutions	Mohammad Ayaz khan , Mohammed Abdul Mateen , Danish Manzoor	International Journal of Creative Research Thoughts (IJCRT) IJCRT2406030	https://www.ijcrt.org/papers/IJCRT2406030.pdf
48	Study Of Cyber Security Challenges And Its Emergning Trends On Latest Technologies	Mohammad Ayaz khan, Danish Manzoor, Mohammed Abdul Mateen	International Journal of Research and Analytical Reviews	https://www.ijrar.org/papers/IJRAR24D1118.pdf
49	Big Data Analytics and Cloud Computing: Implementation Issues and Effects	Mohammed Abdul Mateen,DansihManzoor , Mohammad Ayaz Khan	Journal of Emerging Technologies and Innovative Research	https://www.jetir.org/papers/JETIR2402150.pdf

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51	Implication of E-learning and AI Individualized Pedagogical Perspectives	Mohammad Ayaz Khan Ashraf Ali, Danish Manzoor, Mohammad Abdul Mateen,, Raja Zahid Farid,	Journal of Electrical Systems (JES)	https://journal.esrgroups.org/jes/article/view/4074
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54	The Role of AI Tools in Editing and Proofreading: A Need for Human-Centric Perspective	Zakiuddin Mohammed, Mohammed Abdul Mateen,Danish Manzoor	Acta Scientiae ISSN:1517-4492 E-ISSN:2178-7727	https://www.periodicos.ulbra.org/index.php/acta/article/view/281/252
55	Image Processing-Based Techniques For Biometric Authentication In Cybersecurity	Mohammed Abdul Mateen , Danish Manzoor , Deviprasad Mishra,Dr. Chandrasekar Umapathy	Nanotechnology Perceptions (ISSN 1660-6795)	https://nanontp.com/index.php/nano/article/view/2674/1992
56	Optimizing Machine Learning Classifiers for Enhanced Cardiovascular Disease Prediction	Alanazi, Sultan Munadi; Khamis, Gamal Saad Mohamed;	Engineering, Technology & Applied Science Research	https://doi.org/10.48084/etasr.6684

57	Comparative Analysis of Machine Learning Algorithms for Investigating Myocardial Infarction Complications	Satty, Ali; Salih, Mohyaldein MY; Hassaballa, Abaker A; Gumma, Elzain AE; Abdallah, Ahmed; Khamis, Gamal Saad Mohamed;	Engineering, Technology & Applied Science Research	https://doi.org/10.48084/etasr.6691
58	Analytical solutions of the space-time fractional Kadomtsev-Petviashvili equation using the (G'/G)-expansion method	Hassaballa, Abaker; Salih, Mohyaldein; Khamis, Gamal Saad Mohamed; Gumma, Elzain; Adam, Ahmed M A; Satty, Ali;	Frontiers in Applied Mathematics and Statistics	https://doi.org/10.3389/fams.2024.1379937
59	Statistical Analysis of Factors Associated with Diarrhea in Yemeni Children under Five: Insights from the 2022-2023 Multiple Indicator Cluster Survey	Satty, Ali; Salih, Mohyaldein; Abdalla, Faroug A; A. Mahmoud, Ashraf F; Gumma, Elzain AE; Saad Mohamed Khamis, Gamal; Adam, Ahmed MA; Hassaballa, Abaker A; Hamed, Omer MA; MS Mohammed, Zakariya;	Journal of Epidemiology and Global Health	https://doi.org/10.1007/s44197-024-00253-1
60	Prediction of Myocardial Infarction Complications using Gradient Boosting	Khamis, Gamal Saad Mohamed; Mohammed, Zakariya MS; Alanazi, Sultan Munadi; Mahmoud, Ashraf FA; Abdalla, Faroug A; Bkheet, Sana Abdelaziz;	Engineering, Technology & Applied Science Research	https://doi.org/10.48084/etasr.9076
61	Advanced Deep Learning Approach for Smart Home Appliance Identification Using Recurrent Neural Networks with LSTM	Bkheet, Sana Abdelaziz; Agbinya, Johnson I; Khamis, Gamal Saad Mohamed;	IoT	https://doi.org/10.3390/iot5040038
62	Sports Prediction Model through Cloud Computing and Big Data Based on Artificial Intelligence Method	Aws I Abu Eid, Achraf Ben Miled, Ahlem Fatnassi, Majid A Nawaz, Ashraf FA Mahmoud, Faroug A Abdalla, Chams Jabnoun, Aida Dhibi, Firas M Allan, Mohammed Ahmed Elhossiny, Salem Belhaj, Imen Ben Mohamed	Journal of Intelligent Learning Systems and Applications	https://www.scirp.org/journal/paperinformation?paperid=132227

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66	A New Weighted Ensemble Model to Improve the Performance of Software Project Failure Prediction.	Mohammad A Ibraigheeth, Aws I Abu Eid, Yazan A Alsariera, Waleed F Awwad, Majid Nawaz	International Journal of Advanced Computer Science & Applications	https://pdfs.semanticscholar.org/ddf7/377dce4669ccf81363c678056e49edd09bc6.pdf
67	Leveraging Arabic Text Embedded in Images: Challenges and Opportunities in NLP Analysis	AWS ABU EID, Achraf Ben Miled, Ashraf FA Mahmoud, Faroug A Abdalla, Chams Jabnoun, Aida Dhibi, Firas M Allan, Mohammed Ahmed Elhossiny, Imen Ben Mohamed, Marwa Al Elghazawy, Majid A Nawaz, Salem Belhaj	Journal of Intelligent Systems and Applied Data Science	https://jisads.com/index.php/1/article/view/20
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70	Real Time Electrical Load Prediction and Management through Deep Learning and Reinforcement Learning Techniques	Shimaa A Ahmed, Entisar H Khalifa, Ashraf FA Mahmoud, Faroug A Abdalla, Majid Nawaz, Asma Sulman	Engineering, Technology & Applied Science Research	https://etasr.com/index.php/ETASR/article/view/9559
71	Big Data Analytics and Cloud Computing: Implementation Issues and Effects	Mohammed Abdul Mateen, Danish Manzoor, Mohammad Ayaz Khan	Journal of Emerging Technologies and Innovative Research	https://www.jetir.org/papers/JETIR2402150.pdf
72	Blended Learning and Autonomous Learning: The Overview of The Digital Age of Learning ,Learners and Teachers Involvement , and Digital Sources	Ashraf Ali, Danish Manzoor, Raja Zahid Farid, Mohammad Abdul Mateen,Mohammad Ayaz Khan	SCIENCE INTERNATIONAL	http://www.sci-int.com/pdf/638471450142233783.pdf
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158	DECODING THE DECEPTION: A COMPREHENSIVE ANALYSIS OF CYBER SCAM VULNERABILITY FACTORS	Darem, Abdulbasit; Alhashmi, Asma; Sheatah, Huda K; Mohamed, Imen B; Jabnoun, Chams; Allan, Firas M; Dhibi, Aida; Elmourssi, Doaa M;	Journal of Intelligent Systems and Applied Data Science	https://ieeexplore.ieee.org/abstract/document/10463533/
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