

Staff Handbook

Please fill out and submit one table per person.

Name	<i>Mohamed Wagieh Mostafa Abo ElSoud</i>		
Post	<i>Associate Professor (Computer Science)</i>		
Academic career	<i>B. SC. Degree (Computer Science)</i>	<i>Menofiya University</i>	<i>1997</i>
	<i>MS. C Degree. (Computer Science)</i>	<i>Menofiya University</i>	<i>2003</i>
	<i>PHD Degree. (Computer Science)</i>	<i>(Suez Canal University</i>	<i>2010</i>
	<i>Doctorate</i>	<i>TUHH University)</i>	
Employment	<i>Associate Professor</i>	<i>Majmaah University</i>	<i>2012-Now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Implicit authentication method for smartphone users based on rank aggregation and random forest - Fusion of Orthogonal Moment Features for Mammographic Mass Detection and Diagnosis - An enhanced deep learning method for skin cancer detection and classification - Identification of trusted IoT devices for secure delegation - Levenberg-Marquardt algorithm to examine thermal third grade non-Newtonian fluid using as a polymer for wire covering with variable viscosity - Securing IoT Networks Against DDoS Attacks: A Hybrid Deep Learning Approach - Robust Blind Watermarking to Secure Color Medical Images Using Multidimensional-FFT Fusing LFSR-Encryption and LZW Compression 		
Industry collaborations over the last 5 years	<i>Not Applicable</i>		
Patents and proprietary rights	<i>Not Applicable</i>		<i>Year</i>
Important publications over the last 5 years	<ol style="list-style-type: none"> 1- Wael M. Khedr, Mohamed W. Abo El-Soud. A Novel Blind and Robust Watermarking Technique of Multiple Images. 2019 International Conference on Computational Science and Computational Intelligence (CSCI). IEEE. 2020. 2- Mohamed W.Abo El-Soud , Tarek Gaber, Fayez AlFayez, Mohamed Meselhy Eltoukhy, Implicit authentication method 		

	<p>for smartphone users based on rank aggregation and random forest, Alexandria Engineering Journal, Elsevier, 11 September 2020.</p> <p>3- M. W. A. El-Soud, I. Zyout, K. M. Hosny and M. M. Eltoukhy, "Fusion of Orthogonal Moment Features for Mammographic Mass Detection and Diagnosis," in IEEE Access, vol. 8, pp. 129911-129923, 2020, doi: 10.1109/ACCESS.2020.3008038.</p> <p>4- M. W. A. El-Soud, T. Gaber, M. Tahoun and A. Alourani, "An enhanced deep learning method for skin cancer detection and classification," Computers, Materials & Continua, vol. 73, no.1, pp. 1109–1123, 2022.</p> <p>5- Khalil, Ushna, Adnan Ahmad, Abdel-Haleem Abdel-Aty, Mohamed Elhoseny, Mohamed W. Abo El-Soud, and Furkh Zeshan. "Identification of trusted IoT devices for secure delegation." Computers & Electrical Engineering 90 (2021): 106988.</p> <p>6- Khan, W., Alobaidi, G., Khan, F., Elsoud, M. W. A., & Thaljaoui, A. (2024). Levenberg-Marquardt algorithm to examine thermal third grade non-Newtonian fluid using as a polymer for wire covering with variable viscosity. Journal of Radiation Research and Applied Sciences, 17(4), 101178.</p> <p>7- Ain, N. U., Sardaraz, M., Tahir, M., Abo Elsoud, M. W., & Alourani, A. (2025). Securing IoT Networks Against DDoS Attacks: A Hybrid Deep Learning Approach. Sensors, 25(5), 1346.</p> <p>8- M. W. A. El-Soud, M. M. Eltoukhy, M. M. Abdel-Aziz, A. Alourani and K. M. Hosny, "Robust Blind Watermarking to Secure Color Medical Images Using Multidimensional-FFT Fusing LFSR-Encryption and LZW Compression," in IEEE Access, doi: 10.1109/ACCESS.2025.3547614.</p>
Activities in specialist bodies over the last 5 years	<ul style="list-style-type: none"> • <i>College of Science -</i> <ul style="list-style-type: none"> - <i>Head of eLearning Unit</i> 2023-Now - <i>Coordinator of Standardized tests</i> - <i>Coordinator of FutureX Platform</i> <p><i>Membership without a specific role need not be mentioned</i></p>

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Name	Fayez Alfayez		
Post	Professor		
Academic career	Doctorate (A Wireless Sensor Network System For Border Security And Crossing Detection)	Manchester Metropolitan University	2015
Employment	Professor	Majmaah Uni	2017
Research and development projects over the last 5 years	<p>Block-IOT for Smart and Secure Virtual Assistants for Persons with Disabilities Period and any other information</p> <p>King Salman centre for Disability Research</p>		
Industry collaborations over the last 5 years	<p>IoT-blockchain empowered Trinet: optimized fall detection system for elderly safety</p> <p>King Salman centre for Disability Research</p>		
Patents and proprietary rights	Title	Year	
Important publications over the last 5 years	<ol style="list-style-type: none"> Alqahtani, A.; Khan, S.B.; Alqahtani, J.; AlYami, S.; Alfayez, F. Sentiment Analysis of Semantically Interoperable Social Media Platforms Using Computational Intelligence Techniques. <i>Appl. Sci.</i> 2023, <i>13</i>, 7599. https://doi.org/10.3390/app13137599 Alam, S.; Bhatia, S.; Shuaib, M.; Khubrani, M.M.; Alfayez, F.; Malibari, A.A.; Ahmad, S. An Overview of Blockchain and IoT Integration for Secure and Reliable Health Records Monitoring. <i>Sustainability</i> 2023, <i>15</i>, 5660. https://doi.org/10.3390/su15075660 Badri, S.; Alghazzawi, D.M.; Hasan, S.H.; Alfayez, F.; Hasan, S.H.; Rahman, M.; Bhatia, S. An Efficient and Secure Model Using Adaptive Optimal Deep Learning for Task Scheduling in Cloud Computing. <i>Electronics</i> 2023, <i>12</i>, 1441. https://doi.org/10.3390/electronics12061441 F. Alfayez . "Algorithms for Pre-Compiling Programs by Parallel Compilers" <i>Computer Systems Science and Engineering</i>, VOL.44 No.3, August 2022. doi:10.32604/csse.2023.026238. 		

	<p>5. <i>Mahdi Jemmali, Loai Kayed B. Melhim, Fayez Al Fayez, "Real time read-frequency optimization for railway monitoring system" RAIRO-Oper. Res. 56 (4) 2721-2749 (2022) DOI: 10.1051/ro/2022094</i></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Saudi Scientific Society Chairman 2023-Present for Cybersecurity</i></p> <p><i>Membership without a specific role need not be mentioned</i></p>

Staff Handbook

Name: Dr. Riyadh Mohammed Almushrafy

Post: Head, Department of Computer and Information Sciences, College of Science, Majmaah University

Teaching Area and Designation: Computer Science and Information Technology — Artificial Intelligence, Computer Vision

Academic Career:

Degree	Subject / Title	Institution	Year
Doctorate	Facial Behaviour Analysis for Clinical Applications	University of Manchester	2019
Master's	Information Technology (Framework for Evaluating Scene-Text Extraction Algorithms)	Monash University	2011
Bachelor's	Information Technology	Majmaah University	2009
Diploma	Computer Software	College of Telecom & Information, Riyadh	2004

Employment:

Position	Employer	Period
Head, Department of Computer and Information Sciences	Majmaah University – College of Science	May 2023 – Present
Vice-Dean for Academic Accreditation	Majmaah University	Dec 2021 – Jan 2023
Assistant Professor	Majmaah University	2019 – Present
Lecturer / Director, E-Learning Unit	Majmaah University	2011 – 2019
Teaching Assistant	Majmaah University	2009 – 2011
Computer Programmer	Ministry of Defense / King Khalid International Airport	2004 – 2009
Trainer	College of Telecom & Information, Riyadh	2004

Research and Development Projects (Last 5 Years):

Name of Project / Research Focus	Period	Partners	Amount of Financing
Facial Behaviour Analysis for Clinical Applications	2016–2019	University of Manchester	N/A

Facial Behaviour Analysis in Parkinson's Disease	2019–2021	Majmaah University	N/A
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Industry Collaborations (Last 5 Years): None

Patents and Proprietary Rights: None

Important Publications (Last 5 Years):

Author(s)	Title	Publisher / Details
Almushrafy, R.M.	Facial Behaviour Analysis for Clinical Applications	Lecture Notes in Computer Science, Springer, 2016, pp. 295–307.
Almushrafy, R.M.	Facial Behaviour Analysis in Parkinson's Disease	Lecture Notes in Computer Science, Springer, 2019.

Activities in Specialist Bodies (Last 5 Years):

Organisation	Role	Period
Majmaah University Quality Committee	Member	2021–Present
E-Learning and Digital Transformation Committee	Member	2018–2023
ASIIN Accreditation Preparation Team (CIS Programs)	Chair	2023–Present

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Name	<i>Hani Alquhayz</i>		
Post	<i>Associate Professor of Computer Science</i>		
Academic career	PhD of Computer Sciences	De Montfort University De Montfort	2011-2015 <i>Year</i>
	Master of Information Systems Management, 2008-2009	University	2008
	Bachelor of Computer Sciences,	King Saud University	2002-2006
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor</i>	<i>Majmaah University</i>	<i>6 years</i>
Research and development projects over the last 5 years	https://scholar.google.com/citations?user=U1MS5rAAAAAJ&hl=en&oi=ao		
Industry collaborations over the last 5 years	<i>N/A</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>N/A</i>		
Important publications over the last 5 years	<p>Asif, Rizwana Naz, et al. "Detecting electrocardiogram arrhythmia empowered with weighted federated learning." <i>IEEE Access</i> 12 (2023): 1909-1926.</p> <p>Raja, Muhammad Asif Zahoor, et al. "Integrated intelligent computing application for effectiveness of Au nanoparticles coated over MWCNTs with velocity slip in curved channel peristaltic flow." <i>Scientific Reports</i> 11.1 (2021): 22550.</p> <p>Raja, Muhammad Asif Zahoor, et al. "Integrated intelligent computing application for effectiveness of Au nanoparticles coated over MWCNTs with velocity slip in curved channel peristaltic flow." <i>Scientific Reports</i> 11.1 (2021): 22550.</p>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>N/A</i>		



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Name	<i>Thamer Almasoud</i>		
Post	<i>Programming—Data Science</i>		
Academic career	<i>Initial academic appointment</i>	<i>Majmaah University</i>	<i>Year :2013</i>
	<i>Master (CS)</i>	<i>Saint Joseph's University</i>	<i>Year : 2017</i>
	<i>Undergraduate degree (CS)</i>	<i>Majmaah University</i>	<i>Year:2012</i>
Employment	<i>Position: Lecturer</i>	<i>Employer : Majmaah University</i>	<i>Period 2013 - present</i>
Research and development projects over the last 5 years	<i>Wildfire prediction, big data-based project</i> <i>Spatial Data Analysis using Quad-tree indexing</i>		
Industry collaborations over the last 5 years	<i>N/A</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
Important publications over the last 5 years	<i>N/A</i>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>Membership without a specific role need not be mentioned</i>		

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Name	<i>Adel Theljeoui</i>		
Post	<i>Associate professor</i>		
Academic career	<i>B. Sc. Degree</i>	<i>University Sfax</i>	<i>2001-2005</i>
	<i>M.Sc. Degree</i>	<i>University kairouan</i>	<i>2009-2011</i>
	<i>PhD Degree</i>	<i>University of Toulouse - Jean</i>	<i>2013-2017</i>
	<i>Doctorate (Hybrid Localization System for Elderly People in a Smart Home)</i>	<i>Jaures University (France)</i>	<i>2013</i>
Employment	<i>Associate professor</i>	<i>Majmaah university</i>	<i>2019-Now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ✓ <i>Intelligent network intrusion detection system using optimized deep CNN-LSTM</i> ✓ <i>DDoS attacks detection with half autoencoder-stacked deep neural network. -</i> ✓ <i>Smart deep neural network.</i> ✓ <i>Remote monitoring system using Light Fidelity</i> 		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Adel thaljaoui, "Intelligent network intrusion detection system using optimized deep CNN-LSTM with UNSW-NB15". International Journal of Information Technology 2. A Benfradj, A Thaljaoui, T Moulahi, "Integration of artificial intelligence (AI) with sensor networks: Trends, challenges, and future directions ". Journal of King Saud University-Computer and Information Sciences 3. A Thaljaoui, S Zeadally, A Alourani. "Remote monitoring system using Light Fidelity and InfraRed technologies". Computers and Electrical Engineering. 4. S El Khediri, A Thaljaoui, F Alfayez. "A novel decision-making process for COVID-19 fighting based on association rules and bayesian methods". The Computer Journal 5. M Farhan, Waseem, A Thaljaoui, M Rahman." Data-driven investigation of an epidemic model under saturated incidence rate using deep neural networks". Journal of Applied Mathematics and Computing, 		

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Name	<i>Wael Mohamed Khedr Selim</i>		
Post	<i>Artificial Neural Networks Models</i>		
Academic career	<i>Assistant Professor)</i>	<i>Zagazig university</i>	<i>2005</i>
	<i>Doctorate</i>	<i>Kazakhstan University</i>	<i>2005</i>
	<i>M.Sc.</i>	<i>Zagazig University</i>	<i>1999</i>
	<i>B.Sc.</i>	<i>Zagazig University</i>	<i>1994</i>
Employment	<i>Assistant. Professor in Majmaah univ.</i>		<i>2014-2025</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>		
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
Important publications over the last 5 years	<p><i>Mohammad Mahmood Otoom, Mahdi Jemmali, Wael M. Khedr</i></p> <p><i>Scheduling algorithms for data-protection based on security-classification constraints to data-dissemination, November 1, 2023, PeerJ Computer Science</i></p> <p><i>Wael M. Khedr, Mohamed W. Abo El-Soud. A Novel Blind and Robust Watermarking Technique of Multiple Images. 2019 International Conference on Computational Science and Computational Intelligence (CSCI). IEEE. 2020.</i></p> <p><i>Wael M. Khedr , Pattern Recognition using Two-Dimensional Kernel Non-negative Matrix Factorization Algorithm, January 2017 , American Journal of Engineering Research (AJER)e-ISSN: 2320-0847 p-ISSN : 2320-0936Volume-6, Issue-12, pp-419-426www.ajer.org</i></p> <p><i>W. Khedr and M. E. Abd El Aziz ,Signal Separation using Non-negative Matrix Factorization</i></p> <p><i>Based on R1-norm , Life Science Journal 2012;9(4).</i></p> <p><i>M. E. ABD EL AZIZ & WAEL KEDER " SPARSE NONNEGATIVE MATRIX BASED ON - DIVERGENCE FOR SINGLE CHANNEL SEPARATION IN COCHLEAGRAM ", International</i></p> <p><i>Journal of Mathematics and Computer Applications Research (IJMCR), ISSN 2249-6955 Vol. 2 Issue 4 Dec 2012 11-24.</i></p>		

	<p><i>Wael M. Khedr and Qammar A. Awad, " Study of Fourier Descriptors and its Laplace Transform for Image Recognition." MatrialScoence Research India vol.8(2), 241-245 ,2011.</i></p> <p><i>Wael M. Khedr and Qammar A. Awad, " Neural Network and Adaptive feature Extraction Technique for Pattern Recognition", MatrialScoence Research India vol.8(1), 1-6 ,2011.</i></p> <p><i>A. M. Raid, W. M. Khedr, M.A. Eldosuky and Wesam Ahmed, " Jpeg Image Compression Using Discrete Cosine Transform - A Survey", IJCSES vol.5, ppt 39-47, April, 2014.</i></p> <p><i>Mohamed Abd El Aziz and Wael Khidr , " Nonnegative matrix factorization based on projected hybrid conjugate algorithm", Springer-Verlag London June, 2014</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Organisation</i></th> <th style="text-align: left;"><i>Role</i></th> <th style="text-align: left;"><i>Period</i></th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Membership without a specific role need not be mentioned</i></td> </tr> </tbody> </table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	<i>Membership without a specific role need not be mentioned</i>		
<i>Organisation</i>	<i>Role</i>	<i>Period</i>					
<i>Membership without a specific role need not be mentioned</i>							

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Name	<i>Badr Ahmed Alduraymih</i>		
Post	Lecturer, Department of Computer and Information Sciences, College of Science, Majmaah University		
Academic career	<i>Bachelor's Degree</i>	<i>Majmaah University</i>	<i>2011</i>
		University of Dayton, Ohio	
	<i>Master's Degree</i>		<i>2017</i>
Employment	<i>Teaching assistance</i>	<i>Majmaah University</i>	<i>2013-2014</i>
	Lecture	Majmaah University	<i>2017-present</i>
Research and development projects over the last 5 years	<i>None</i>		
Industry collaborations over the last 5 years	<i>None</i>		
Patents and proprietary rights	<i>None</i>		
Important publications over the last 5 years	none		
Activities in specialist bodies over the last 5 years	<i>Student Activities Committee – Department of Computer Science – chair (2025 – Present)</i> <i>Volunteer and Community Service Committee - Computer Science Department – Member (2023-2024)</i>		



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Name	<i>Abd Allah Mohamed Aalgashami</i>		
Post	<i>Assistant Professor</i>		
Academic career	<i>PhD in Engineering and IT</i>	<i>Demont Fort</i>	<i>2010</i>
	<i>BSc</i>	<i>Qassim University</i>	<i>2005</i>
Employment	Assistant Professor in Computer Science and Information Department	Collage of Science Majmaah University	2010
	Scientific Research and Higher Studies at the College of Science,	Collage of Science Majmaah University	Two Years
Research and development projects over the last 5 years	-		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 6 Articles in High Ranked Journals+ Conferences</i></p> <ol style="list-style-type: none"> 1. Abdullah Algashami, Laura Vuillier, Amen Alrobai, Keith Phalp, Raian Ali. Gamification Risks to Enterprise Teamwork: Taxonomy, Management Strategies and Modalities of Application. Systems. 2019; 7(1):9. 2. Abdullah Algashami, Sainabou Cham, Laura Vuillier, Angelos Stefanidis, Keith Phalp, Raian Ali. Conceptualising Gamification Risks to Teamwork within Enterprise. The 11th IFIP WG 8.1 Working Conference on the Practice of Enterprise Modelling 31 October – 2 November 2018. Vienna, Austria 3. Abdullah Algashami, Alimohammad Shahri, John McAlaney, Jacqui Taylor, Keith Phalp, Raian Ali. Strategies and Design Principles to Minimize Negative Side-effects of Digital Motivation on Teamwork. The 12th International Conference on Persuasive Technology. PERSUASIVE 2017 (PT-17). April 3-6, 2017. Amsterdam, The Netherlands. 4. Amen Alrobai, Abdullah Algashami, Huseyin Dogan, Tessa Corner, Keith Phalp, Raian Ali. COPE.er Method: Combating Digital Addiction via Online Peer Support Groups. In Special issue: Internet-Related Addictions and Health. Int. J. Environ. Res. Public Health 2019, 16(7), 1162; 5. Sainabou Cham, Abdullah Algashami, John McAlaney, Angelos Stefanidis, Keith Phalp and Raian Ali. Goal Setting for Persuasive 		

	<p>Information Systems: Five Reference Checklists. 14th International Conference on Persuasive Technology. LNCS Springer. 9-11 April 2019. Limassol, Cyprus.</p> <p>6. Sainabou Cham, Abdullah Algashami, Manal Aldhayan, John McAlaney, Keith Phalp, Mohamed Basel Almourad, Raian Ali. Digital Addiction: Negative Life Experiences and Potential for Technology-Assisted Solutions. WorldCIST'19 – 7th World Conference on Information Systems and Technologies. Springer AISC Series. 16-19 April 2019. La Toja Island, Spain.</p>
<p>Activities in specialist bodies over the last 5 years</p>	<ul style="list-style-type: none"> ➤ In the Committee of the “International Summit on Quantum and Nuclear Engineering (ISQNE2024)”, which is Held in Brussels-Belgium from 22-24 July, 2024 ➤ In the Committee of the department entrusted with preparing curricula for the Higher Technological Institute for Nuclear and Applied Sciences, which is scheduled to be established at the Egyptian Atomic Energy Authority in 2023. ➤ 2023-2026 Holds a personal license as a user of radioactive materials in non-medical applications - from the Nuclear and Radiological Regulatory Authority of the Presidency of the Council of Ministers - to work in the radioactive isotope laboratory for industrial applications and the radiological calibration laboratory. ➤ 2023 Certified reviewer for the International Research Journal of Pure and Applied Chemistry ➤ Member of the Council of the Nuclear Materials and Manufacturing Division for the year 2020/2021 ➤ Member and Rapporteur of the Scientific Committee of the Nuclear Materials and Manufacturing Division for the year 2021/2022 ➤ Member of the Technology Committee of the Nuclear Materials and Manufacturing Division for the year 2022/2023 ➤ Permanent member of the Council of the Engineering and Scientific Instruments Department since 2019 ➤ Chairman of the Supervision Committee for Photocopying Machines at the Nuclear Research Center from October 9, 2016 to date. ➤ Member of the periodical examination committee, which was formed by the head of the Nuclear Research Center on 12/4/2016. ➤ Member of some technical committees to set specifications and technical examination of some devices in the department

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Name	<i>Hassan Aly</i>		
Post	<i>Cryptography and Cybersecurity</i>		
Academic career	<i>Associate Professor)</i>	<i>Cairo university</i>	<i>2010</i>
	<i>Doctorate</i>	<i>Klagenfurt University</i>	<i>1997</i>
	<i>M.Sc.</i>	<i>Cairo University</i>	<i>1991</i>
	<i>B.Sc.</i>	<i>Cairo University</i>	<i>1987</i>
		<i>Cairo University</i>	
Employment	<i>Assoc. Professor</i>	<i>Period</i>	
Research and development projects over the last 5 years	Aly, H. and Winterhof, A. "A note on Hall's Sextic residue sequence: Correlation measure of order k and related measures of Pseudo-randomness", IEEE-IT. 2020		
Industry collaborations over the last 5 years	<i>Project title</i>		
	<i>Partners</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
Important publications over the last 5 years	Aly, H. and Elgayyar M. "Attacking AES using Modern Processors", AFRICACRYPT 2013, LNCS vol. 7918, pp. 127-139, 2013,		
	Aly, H. and Winterhof, A. "A note on Hall's Sextic residue sequence: Correlation measure of order k and related measures of Pseudo-randomness", IEEE-IT. 2020		
	Al-ardhi, S. Aly, H. and Thayananthan, V. " A High Capacity Reversible Watermarking based on linear cellular Automata for 2D Vector Maps", Proceedings of the 8 th international workshop on Computer Science and Engineering (WCSE 2018) pp. 569-577		
	Aly, H. and Jammili, M. "Heuristics Enhancement Procedure for Identical Parallel 2^k Processor Scheduling Problem}", submitted to Computers and Operational Research, 2018		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
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Name	<i>Abdullah Mohammed Alfahaid</i>		
Post	<i>Teaching areas: Computer Visio, Image Processing, Machine Learning and Medical Image Analysis Industrial Image Analysis.</i> <i>Designation: Assistant Professor</i>		
Academic career	<i>Teaching Assistant</i>	<i>Taibah University</i>	<i>09/07/2013 – 16/11/2020</i>
	<i>Lecturer</i>	<i>Taibah University</i>	<i>16/11/2020 – 12/04/2023</i>
	<i>Assistant Professor</i>	<i>Taibah University</i>	<i>12/04/2023 – 21/10/2025</i>
	<i>Assistant Professor (Current Position))</i>	<i>Majmaah University</i>	<i>12/04/2023 – 21/10/2025</i>
Employment	<i>Database Administrator</i>	<i>Saudi Electronic University</i>	<i>01/11/2012 to 11/02/2013</i>
	<i>Computer Operator (Grade 7)</i>	<i>Saudi Electronic University</i>	<i>11/02/2013 to 09/07/2013</i>
	<i>Faculty Member, Teaching Assistant</i>	<i>College of Computer Science and Engineering, Yanbu (Taibah University)</i>	<i>09/07/2013 to 16/11/2020</i>
	<i>Faculty Member, Lecturer</i>	<i>College of Computer Science and Engineering, Yanbu (Taibah University)</i>	<i>16/11/2020 to 12/04/2023</i>
	<i>Honorary Research Associate</i>	<i>Moorfields Eye Hospital London</i>	<i>01/08/2018 to Present</i>
	<i>Assistant Professor</i>	<i>College of Computer Science and Engineering, Yanbu</i>	<i>12/04/2023 to 21/10/2025</i>

	<p style="text-align: right;"><i>(Taibah University)</i></p> <p><i>Head of Alumni Unit</i> <i>College of Computer Science and Engineering, Yanbu</i> <i>02/04/2023 to 21/10/2025</i></p> <p><i>Program Director, Bachelor of Computer Science</i> <i>College of Computer Science and Engineering, Yanbu</i> <i>27/10/2023 to 21/10/2025</i></p> <p><i>Member, Teaching Assistants & Lecturers Unit</i> <i>College of Computer Science and Engineering, Yanbu</i> <i>01/04/2023 to 21/10/2025</i></p> <p><i>Member, Quality & Academic Accreditation Unit</i> <i>College of Computer Science and Engineering (Main Campus), Al-Madinah</i> <i>06/02/2024 to 21/10/2025</i></p> <p><i>Director, Quality Assurance & Academic Accreditation Unit</i> <i>College of Computer Science and Engineering, Yanbu</i> <i>21/10/2024 to 21/10/2025</i></p> <p><i>Head of Computer Science Department</i> <i>College of Computer Science and Engineering, Yanbu</i> <i>02/12/2024 to 21/10/2025</i></p> <p><i>Assistant Professor (Current Position)</i> <i>College of Science, Department of Computer Science and Information</i> <i>22/10/2025 to Present</i></p>
<p>Research and development projects over the last 5 years</p>	<p><i>Research Publications (2020–2025)</i></p> <p><i>2025</i></p> <p><i>MammoViT: A Custom Vision Transformer Architecture for Accurate BIRADS Classification in Mammogram Analysis</i></p> <p><i>Diagnostics, 2025.</i></p> <p><i>Stacking Ensemble Deep Learning for Real-Time Intrusion Detection in IoMT</i></p>

	<p><i>Environments</i></p> <p><i>Sensors, 2025.</i></p> <p><i>DA-ViT: Deformable Attention Vision Transformer for Alzheimer’s Disease Classification from MRI Scans</i></p> <p><i>Computer Modeling in Engineering & Sciences, 2025.</i></p> <p><i>Machine Learning-Based Security Solutions for IoT Networks: A Comprehensive Survey</i></p> <p><i>Sensors, 2025.</i></p> <p><i>An Intelligent Ensemble-Based Detection of In-Vehicle Network Intrusion</i></p> <p><i>Applied Sciences, 2025.</i></p> <p><i>Dynamic Orbital Resource Management (DORM) for 6G Networks: Enhancing Cybersecurity in Non-Terrestrial Systems</i></p> <p><i>IEEE Access, 2025.</i></p> <p><i>Machine Learning-Based Analysis of Optical Coherence Tomography Angiography Images for Age-Related Macular Degeneration</i></p> <p><i>Biomedicines, 2025.</i></p>
Industry collaborations over the last 5 years	N/A
Patents and proprietary rights	N/A
Important publications over the last 5 years	<p><i>Important Publications With Authors (2020–2025)</i></p> <p><i>2025</i></p> <p><i>1. MammoViT: A Custom Vision Transformer Architecture for Accurate BIRADS Classification in Mammogram Analysis</i></p> <p><i>Authors: A. G. Al Mansour, F. Alshomrani, A. Alfahaid, A. T. Almutairi</i></p> <p><i>Diagnostics, 2025.</i></p> <p><i>2. Stacking Ensemble Deep Learning for Real-Time Intrusion Detection in IoMT Environments</i></p> <p><i>Authors: E. Alalwany, B. Alsharif, Y. Alotaibi, A. Alfahaid, I. Mahgoub, M. Ilyas</i></p> <p><i>Sensors, 2025.</i></p>

	<p>3. <i>DA-ViT: Deformable Attention Vision Transformer for Alzheimer’s Disease Classification from MRI Scans</i></p> <p><i>Authors: A. G. Almansour, F. Alshomrani, A. T. Almutairi, E. Alalwany, M. S. Alshuhri, H. Alshaari, A. Alfahaid</i></p> <p><i>Computer Modeling in Engineering & Sciences, 2025.</i></p> <p>4. <i>Machine Learning-Based Security Solutions for IoT Networks: A Comprehensive Survey</i></p> <p><i>Authors: A. Alfahaid, E. Alalwany, A. M. Almars, F. Alharbi, E. Atlam, I. Mahgoub</i></p> <p><i>Sensors, 2025.</i></p> <p>5. <i>An Intelligent Ensemble-Based Detection of In-Vehicle Network Intrusion</i></p> <p><i>Authors: E. Alalwany, I. Mahgoub, B. Alsharif, A. Alfahaid</i></p> <p><i>Applied Sciences, 2025.</i></p> <p>6. <i>Dynamic Orbital Resource Management (DORM) for 6G Networks: Enhancing Cybersecurity in Non-Terrestrial Systems</i></p> <p><i>Authors: F. Alharbi, A. Alhuzali, E. Alalwany, A. Alfahaid</i></p> <p><i>IEEE Access, 2025.</i></p> <p>7. <i>Machine Learning-Based Analysis of Optical Coherence Tomography Angiography Images for Age-Related Macular Degeneration</i></p> <p><i>Authors: A. Alfahaid, T. Morris, T. Cootes, P. A. Keane, H. Khalid, N. Pontikos, F. Alharbi, E. Alalwany, A. M. Almars, A. Aldweesh, et al.</i></p> <p><i>Biomedicines, 2025.</i></p>
Activities in specialist bodies over the last 5 years	<p>N/A</p> <p>N/A</p>

Staff Handbook

Name	<i>Mohamed Elsayed Mohamed Eltokhy</i>		
Post	<i>Assistant Professor (Computer Science)</i>		
Academic career	<i>Demonstrator</i>	<i>Egyptian Academic Energy Authority</i>	<i>2006</i>
	<i>Post Doctor</i>	<i>Joint Institute of Nuclear Research</i>	<i>2024</i>
	<i>PhD (Development of Quantum Devices and Algorithms for Radiation Detection and Radiation Signal Processing)</i>	<i>Al Azhar university</i>	<i>2012</i>
	<i>BSc</i>	<i>Benha University</i>	<i>2004</i>
Employment	Position	Employer	Period
	<i>Assistant Professor</i>	<i>Al Majmahaa University</i>	<i>2025-Now</i>
	<i>Head of Engineering Department</i>	<i>, NRC, EAEA</i>	<i>2025</i>
	<i>Senior Researcher Scientist</i>	<i>JINR</i>	<i>2024-2025</i>
	<i>Head of Quality Unit</i>	<i>EAEA</i>	<i>2022-2025</i>
	<i>Head of Engineering Department</i>	<i>NRC, EAEA</i>	<i>2024</i>
	<i>Professor</i>	<i>Madina High Institute for Engineering and Technology</i>	<i>2023-2024</i>
	<i>Associate Professor</i>	<i>Al Obour High Institute for Engineering and Technology</i>	<i>2021-2023</i>
	<i>Siberian Federal University, Krasnoyarsk, Russia</i>	<i>2017- 2018</i>	
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ☒ 2023-2026 Principle Investigator (PI) of a Research Contract Project number J02020 that Titled as “Intelligent analysis and interpretation of radiological crime scenes using Robotics and Hardware implementation”, Funded by IAEA during the period 2023-2026 ☒ 2023 Member in the RAF 7018 Project that Titled as “Applying Radiation technologies to Assess Sediment Transport for the Management of Coastal Infrastructures” Funded by IAEA ☒ 2023 Member in the Research Contract Project Number CRP F22076 that Titled as “Development of Radiometric Methods to Measure and Study Hydrodynamics of Constructed Wetlands” Funded by IAEA ☒ 2018-2021 Member in the RAF 1008 Project that Titled as “Supporting Radiation Technologies in Industrial Applications and Preventive Maintenance of Nuclear and Medical Equipment (AFRA)” 		
Industry	<i>Na</i>		

collaborations over the last 5 years	
Patents and proprietary rights	<i>Na</i>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 36 Articles in (High Ranked Journals+ Conferences)</i></p> <ol style="list-style-type: none"> 1) Mohamed El_Tokhy, Sergey Rozov and Elsayed H. Ali, “Hardware-optimized precision for in-situ gamma instrumentation using advanced digital pulse processing algorithms”, Journal of Radiation Research and Applied Sciences, Vol. 18, No. 2, 2025. (Impact Factor = 2.5) 2) Mohamed S. El_Tokhy, Sergey Rozovs, Alexey Lubashevskiy and Elsayed H. Ali, “Optimization of Dead Time Correction for Digital Gamma Ray Spectroscopy Based on Social Spider Algorithm”, Nuclear Analysis, 2025. 3) Zaky A. Zaky, Ali Alzahrani, M. A. Abu Radia, V. D. Zhaketov, Mohamed S. El-Tokhy and Mohammed Sallah, “Refractive indices equations of silicon dioxide for optical simulations”, Journal of Optics, 2025. (Impact Factor = 2.5) 4) Zaky A. Zaky, Taher S. Hassan, Vladimir Zhaketov, Mohamed S. El_Tokhy, and M. Sallah, “Theoretical study of doped porous silicon in cantor quasi periodic structure for gamma radiation detection”, Scientific Reports, Vol. 15, No. 1. (Impact Factor = 3.9) 5) Mohamed S. El_Tokhy, Sergey Rozov, and Elsayed H. Ali, “Advanced Uncertainty Algorithms for Correction of Dead Time and Energy Resolution in Digital Gamma Ray Spectroscopy”, Submitted to Analog Integrated Circuits and Signal Processing, 2024. 6) Fayez Alfayez, and Mohamed S. El_Tokhy, “Deep Learning for Accurate Alzheimer's Disease Detection in X-ray Images”, PLOS ONE Journal, 2024. (Impact Factor = 3.2) 7) Mohamed S. El_Tokhy, H. Kasban, and Elsayed H. Ali, "Malfunction Diagnosis Based on Residence Time Distribution of Radiotracer Signals in Industrial Processes using Machine Learning Techniques", Journal of Annals of Nuclear Energy, 2024. (Impact Factor = 1.9) 8) Mohamed S. El-Tokhy, "Efficient Signal Transmission Algorithms for Remote Sensing Gamma Radiation over Developed Mobil WiMax Network", International Journal of Communication Systems, 2023. (Impact Factor = 2.1) 9) Mohamed S. El_Tokhy, "An Efficient Digital Pulse Processing Approach for Identification of BGO and LSO Scintillator Crystals", Journal of Instrumentation, Vol. 18, 2023. (Impact Factor =1.121) 10) Mohamed S. El_Tokhy, "Development of precise forgery detection

	<p>algorithms in digital radiography images using convolution neural network", Applied Soft Computing, Vol. 138, 2023. (IF =8.263)</p> <p>11) Mohamed S. El-Tokhy, "Capacity Analysis of Cognitive Radio Wireless Sensor Network under Optimal Power Allocation in Imperfect Channel", Wireless Network, 2022. (IF =2.701)</p> <p>12) Mohamed S. El-Tokhy, Elsayed H. Ali and H. Kasban, "Performance Improvement of OFDMA Systems Through Wireless Communication Channels", Wireless Personal Communications, 2022. (Impact Factor=2.017)</p> <p>13) Mohamed S. El_Tokhy, "Precise Pulse Processing Discrimination between Alpha and Neutron Radiation Using Grey Wolf and Whale Optimization Algorithms", IEEE Transactions on Instrumentation and Measurement, 2021. (Impact Factor =5.332)</p> <p>14) Imbaby Ismail Mahmoud, Magdy M. Zaky, Mohamed El_Tokhy, Adel Zaghloul and Moteaa A. Nassar, "Experimental Measurements for Attenuation Recovery in Optical Fiber Cables under Gamma and Neutron Irradiation", Alexandria Engineering Journal (AEJ), 2021. (IF=6.626)</p> <p>15) Mohamed S. El_Tokhy, "Digital inspection approach of overlapped peaks due to high counting rates in neutron spectroscopy", Progress in Nuclear Energy, Vol. 137, No. 2, 2021. (IF =2.461)</p> <p>16) Mohamed S. El_Tokhy, "Development of optimum watermarking algorithm for radiography images", Computers & Electrical Engineering, Vol. 89, 2021. (Impact Factor =4.152)</p> <p>17) Mohamed S. El_Tokhy, "Rapid and Robust Radioisotopes Identification Algorithms of X-Ray and Gamma Spectra", Measurement, Vol. 168, 2021. (Impact Factor =5.131)</p> <p>18) Mohamed S. El_Tokhy and Imbaby I. Mahmoud, "Detectivity Analysis of Infrared Photodetector Devices under Nonuniform Distribution of Quantum Well and Wire", Optik, Vol. 227, 2021. (Impact Factor =2.84)</p> <p>19) Mohamed S. El_Tokhy, "Robust Multimodal Biometric Authentication Algorithms Using Fingerprint, Iris and Voice Features Fusion", Journal of Intelligent & Fuzzy Systems, 2021. (Impact Factor =1.737)</p> <p>20) Mohamed S. El_Tokhy and Imbaby I. Mahmoud, "Temperature Coupling Analysis Between Nuclear Steam Generators and Heat Exchanger Inside Pressurized Water Reactors", Nuclear Science and Engineering, 2021. (Impact Factor =1.46)</p> <p>21) Mohamed I.Gaber, Ashraf A. M. Khalaf, Imbaby I. Mahmoud and Mohamed S. El_Tokhy, "Development of information collection scheme in internet of things environment for intelligent radiation monitoring systems", Journal of Telecommunication Systems, 2021. (IF =2.336)</p> <p>22) Mohamed S. El_Tokhy, Elsayed H. Ali and Sergey polutov, "Performance</p>
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	<p>Improvement of Quantum Well Infrared Photodetectors through Dark Current Reduction Factor", IETE Journal of Research (TIJR), 2021. (Impact Factor =1.877)</p> <p>23) Mohamed S. El_Tokhy, Elsayed H. Ali and Refaat. M Fikry, "Analysis of Contrast Transfer Characteristics of Integrated Images Based on Optoelectronic Integrators", Arab journal of Nuclear Science and applications, 2021.</p> <p>24) Elsayed H. Ali, Mohamed S. El-Tokhy, and Somya Kayed, "outage probability and capacity improvement of a wireless communication systems", Arab Journal of Nuclear Sciences and Applications, 2023.</p> <p>25) Elsayed H. Ali, Mohamed S. El-Tokhy, and H. Kasban, "Development of Signal Recovery Algorithm for Overcoming PAPR in OFDMA Communication System", Arab Journal of Nuclear Sciences and Applications, Vol. 55, No. 1, pp. 15-33, 2021</p> <p>26) Mohamed I.Gaber, Ashraf A. M. Khalaf, Imbaby I. Mahmoud and Mohamed S. El_Tokhy, "Detection and recognition of moving objects for physical systems protection in nuclear facilities", Journal of Advanced Engineering Trends, 2021.</p> <p>27) Mohamed S. El_Tokhy, "Ultimate neutron and x-ray radiography images compression using artificial bee colony and firefly optimization algorithms", Journal of Electronic Imaging, Vol. 29, No. 2, pp. 023003-1- 023003-30, 2020. (Impact Factor =0.829)</p> <p>28) Mohamed S. El_Tokhy, "Advanced algorithms for retrieving pileup peaks of digital alpha spectroscopy using antlions and particle swarm optimizations", Nuclear Science and Techniques, Vol. 31, pp. 1-22, 2020. (Impact Factor =2.389)</p> <p>29) Mohamed S. El_Tokhy, "Improvements of resolution and conversion efficiency of optoelectronic imaging instruments based on graphene and quantum dot bases of photodetectors with light emitting diodes", Optical Engineering, Vol. 59, No. 4, pp. 043102-1- 043102-24, 2020. (IF =1.352)</p> <p>30) H. Kasban, Elsayed H. Ali, Mohamed S. EL-Tokhy and H. Arafa, "Improvement of Radiotracer Residence Time Distribution Analysis in Industrial Applications", International Journal of Systems Signal Control and Engineering Applications, 2020.</p> <p>Ø International Conferences</p> <p>31) Elsayed H. Ali, Horeya A. Arafa, Hany Kasban and Mohamed El_Tokhy, "Efficient processing algorithms of radiotracer signals for optimizing Flow rate Measurements based on Residence Time Distribution", Conference: Third International Conference on Applications of Radiation Science and Technology (ICARST 2025), Vienna, Austria, 7-11 April 2025</p> <p>32) Mohamed S. El_Tokhy, "Secure Monitoring Algorithm for Nuclear</p>
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	<p>Facilities in Nuclear Research Reactors”, Accepted at International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future, IAEA, Vienna, Austria, 11-15 November 2024.</p> <p>33) Mohamed S. El_Tokhy, “Advanced Uncertainty Algorithms for Correction of Dead Time and Energy Resolution in Digital Gamma Ray Spectroscopy”, International Conference on Nuclear Security: Shaping the Future, IAEA, Vienna, 2024.</p> <p>34) Virtual Attendance of “Technical Meeting on Digital Instrumentation and Control Systems for Research Reactors”, by IAEA, Vienna, Austria, 3rd/6 July 2023.</p> <p>35) Asmaa El Beheiy, Mohamed S. El_Tokhy, Imbaby I. Mahmoud and Mohamed El_Mashade, “Study of Wireless Sensor Network Performance under Different Channel Fading Models”, The 35th National Radio Science Conference (NRSC2022), Electronics Research Institute (ERI), Cairo, Egypt, 29 November³/31 December 2022.</p> <p>36) Mohamed S. El_Tokhy, “Intelligent Analysis and Interpretation of Radiological Crime Scenes Using Robotics and Hardware Implementation”, First Research Coordination Meeting (RCM) for CRP J02020 on “Nuclear Forensics Science to Bridge the Radiological Crime Scene to the Nuclear Forensics Laboratory.”, IAEA, Vienna Austria, 11 to 14 Feb. 2024.</p>
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<p>Activities in specialist bodies over the last 5 years</p>	<ul style="list-style-type: none"> Ø In the Committee of the “International Summit on Quantum and Nuclear Engineering (ISQNE2024)”, which is Held in Brussels-Belgium from 22-24 July, 2024 Ø In the Committee of the department entrusted with preparing curricula for the Higher Technological Institute for Nuclear and Applied Sciences, which is scheduled to be established at the Egyptian Atomic Energy Authority in 2023. Ø 2023-2026 Holds a personal license as a user of radioactive materials in non-medical applications - from the Nuclear and Radiological Regulatory Authority of the Presidency of the Council of Ministers - to work in the radioactive isotope laboratory for industrial applications and the radiological calibration laboratory. Ø 2023 Certified reviewer for the International Research Journal of Pure and Applied Chemistry Ø Member of the Council of the Nuclear Materials and Manufacturing Division for the year 2020/2021 Ø Member and Rapporteur of the Scientific Committee of the Nuclear Materials and Manufacturing Division for the year 2021/2022 Ø Member of the Technology Committee of the Nuclear Materials and Manufacturing Division for the year 2022/2023 Ø Permanent member of the Council of the Engineering and Scientific Instruments Department since 2019 Ø Chairman of the Supervision Committee for Photocopying Machines at the Nuclear Research Center from October 9, 2016 to date. Ø Member of the periodical examination committee, which was formed by the head of the Nuclear Research Center on 12/4/2016. Ø Member of some technical committees to set specifications and technical examination of some devices in the department
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Staff Handbook

Please fill out and submit one table per person.

Name	<i>Dr. Mutasim Mohamed Elkeir Mansour</i>		
Post	<i>Assistant Professor, Department of Computer Science & Information</i>		
Academic career	<i>Doctorate:</i>	<i>University of Academy of Sciences Sudan</i>	<i>2013</i>
	<i>"Information Technology "</i>		
	<i>Title: (The Role Systems Analysis and Design In The Business Process Reengineering)</i>	<i>Institution</i>	<i>2005</i>
	<i>Master's Degree: Computer science and information</i>	<i>University of Gezira sudan</i>	
	<i>Undergraduate degree (computer science)</i>	<i>University of Gezira sudan</i>	<i>1997</i>
Employment	<i>Assistant Professor</i>	<i>Majmaah University</i>	<i>2014- Till date</i>
Research and development projects over the last 5 years	<i>NA</i>		
Industry collaborations over the last 5 years	<i>NA</i>		
Patents and proprietary rights	<i>NA</i>		
Important publications over the last 5 years	<p>Total number of publications:(21)</p> <p><i>1.title={Effect of automation process on the efficiency of computerized systems},</i> <i>author={elkir and Nahid osman, mutasim mohamed},</i> <i>journal={International Journal of Scientific \& Engineering Research},</i> <i>volume={10},</i> <i>number={November 2019 Edition},</i> <i>pages={112--118},</i> <i>year={2019},</i> <i>publisher={International Journal of Scientific \& Engineering Research Volume 10, Issue~...}</i></p> <p><i>}</i></p>		

	<p>2. title={Developing a Prediction Model Using J48 Algorithm to Predict Symptoms of COVID-19 Causing Death},</p> <p>author={Dr. Mutasim Al Sadig1, Dr. Khalid Nazim Abdul Sattar2},</p> <p>journal={IJCSNS International Journal of Computer Science and Network Security},</p> <p>volume={20},</p> <p>number={8},</p> <p>pages={80--83},</p> <p>year={2020},</p> <p>publisher={IJCSNS International Journal of Computer Science and Network Security},</p> <p>}</p> <p>. title={Detection of Levels of Blood Sugar Using Simple IoT Based Breath Analysis},</p> <p>author={Dr. Khalid Nazim Abdul Sattar1 , Dr. Mohammad Mahmood Otoom2 , Dr. Mutasim Al Sadig3, Dr. Nandini . N. 4},</p> <p>journal={IJCSNS International Journal of Computer Science and Network Security},</p> <p>volume={20},</p> <p>number={8},</p> <p>pages={80--83},</p> <p>year={2020},</p> <p>publisher={IJCSNS International Journal of Computer Science and Network Security},</p> <p>}</p> <p>4. title={QoS of VOIP Over Broadband Network},</p> <p>author={Khier, Mutasim Mohammed EL},</p> <p>journal={International Journal of Engineering and Management Research (IJEMR)},</p> <p>volume={9},</p> <p>number={5},</p> <p>pages={122--125},</p> <p>year={2019},</p> <p>publisher={Vandana Publications}</p> <p>}</p> <p>5. title={Applying K-Nearest Neighbors (Knn) Classifier For The Prediction Of Carotid Intima-Media Thickness},</p>
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	<p> <i>author={Sadig, Mutasim EL and Qawqzeh, Yousef K and Nafie, Faisal Mohammed},</i> <i>journal={IJCSNS},</i> <i>volume={20},</i> <i>number={2},</i> <i>year={2020}</i> } 6. <i>title={Detection of Levels of Blood Sugar Using Simple IoT Based Breath Analysis},</i> <i>author={Sattar, Khalid Nazim Abdul and Otoom, Mohammad Mahmood and Al Sadig, Mutasim},</i> <i>journal={IJCSNS},</i> <i>volume={20},</i> <i>number={8},</i> <i>pages={21},</i> <i>year={2020}</i> } 7. <i>title={Innovative Model of Conference Attendance Process Reengineering at Saudi University},</i> <i>author={Al Sadig, Mutasim and Alharbi, Mafawez and Qawqzeh, Yousef K},</i> <i>journal={IJCSNS Int. J. Comput. Sci. Netw. Secur},</i> <i>volume={20},</i> <i>number={11},</i> <i>pages={124--131},</i> <i>year={2020}</i> } 8. <i>title={Building Predictive Model of COVID 19 Quarantine Impact on the Purchase of Environmentally Green Products by Using J48 and LMT Algorithms},</i> <i>author={Al Sadig, Mutasim and Babikir, Nahid Osman Ali and Ali, Faisal Mohammed Nafie and Sattar, Khalid Nazim Abdul},</i> <i>journal={IJCSNS},</i> <i>volume={22},</i> <i>number={01},</i> <i>year={2022}</i> } </p>
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	<p>9. title={Ensemble Model for Network Intrusion Detection System Based on Bagging Using J48},</p> <p>author={Otoom, Mohammad Mahmood and Sattar, Khalid Nazim Abdul and Al Sadig, Mutasim},</p> <p>journal={Advances in Science and Technology. Research Journal},</p> <p>volume={17},</p> <p>number={2},</p> <p>pages={322--329},</p> <p>year={2023},</p> <p>publisher={Stowarzyszenie Inżynierów i Techników Mechaników Polskich}</p> <p>}</p> <p>10. title={A Voice-Based Disease Prediction System},</p> <p>author={Sattar, Khalid Nazim Abdul and Ahmed, Ahsan and Al Sadig, Mutasim},</p> <p>journal={IJCSNS},</p> <p>volume={22},</p> <p>number={01},</p> <p>pages={2},</p> <p>year={2022}</p> <p>}</p> <p>11. title={Internet of things-assisted smart skin cancer detection using metaheuristics with deep learning model},</p> <p>author={Obayya, Marwa and Arasi, Munya A and Almalki, Nabil Sharaf and Alotaibi, Saud S and Al Sadig, Mutasim and Sayed, Ahmed},</p> <p>journal={Cancers},</p> <p>volume={15},</p> <p>number={20},</p> <p>pages={5016},</p> <p>year={2023},</p> <p>publisher={MDPI}</p> <p>}</p> <p>12. title={ROBO DOC-Machine Learning Based Disease Diagnostic Aid},</p> <p>author={Al Fayez, Fayez and Tayel, IM and Alharbi, SO and Alkhunaizan, AS and Tayel, IM and Al Sadig, M and Sattar, KNA and Alfalih, AA and Alhamad, H and Alzyadh, T and others},</p>
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	<p> <i>journal={INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND NETWORK SECURITY},</i> <i>volume={20},</i> <i>number={11},</i> <i>pages={22--29},</i> <i>year={2020}</i> } 13.title={Ws world scientific}, <i>author={Nanthaamornphong, Aziz and Kumar, Arun and Alamro, Hayam and Alruwais, Nuha and Allafi, Randa and Nemri, Nadhem and Gaur, Nishant and Al Sadig, Mutasim}</i> } 14.title={Enhancing OTFS modulation for 6G through hybrid PAPR reduction technique for different sub-carriers}, <i>author={Nanthaamornphong, Aziz and Kumar, Arun and Alamro, Hayam and Alruwais, Nuha and Allafi, Randa and Nemri, Nadhem and Gaur, Nishant and Al Sadig, Mutasim},</i> <i>journal={FRACTALS (fractals)},</i> <i>volume={32},</i> <i>number={09n10},</i> <i>pages={1--22},</i> <i>year={2024},</i> <i>publisher={World Scientific Publishing Co. Pte. Ltd.}</i> } 15.title={Leveraging corpus linguistics and data-driven deep learning for textual emotion analysis}, <i>author={Askiany, Somia A and Al-Shathry, Najla I and Hassan, Abdulkhaleq QA and Al-Dobaian, Abdullah Saad and Almanea, Manar and Alghamdi, Ayman Ahmad and Al Sadig, Mutasim},</i> <i>journal={Fractals,(prepublish)},</i> <i>year={2024}</i> } 16. title={GAN-based Synthetic Medical Image Augmentation for Class Imbalanced Dermoscopic Image Analysis}, <i>author={Alshardan, Amal and Alahmari, Saad and Alghamdi, Mohammed and Al Sadig, Mutasim and Mohamed, Abdullah and Mohammed, Gouse Pasha},</i> <i>journal={FRACTALS (fractals)},</i> </p>
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	<p> <i>volume={33},</i> <i>number={02},</i> <i>pages={1--14},</i> <i>year={2025},</i> <i>publisher={World Scientific Publishing Co. Pte. Ltd.}</i> </p> <p>}</p> <p> <i>17.title={Enhanced anomaly network intrusion detection using an improved snow ablation optimizer with dimensionality reduction and hybrid deep learning model},</i> </p> <p> <i>author={Alhayan, Fatimah and Alshuhail, Asma and Ismail, Ahmed Omer Ahmed and Alrusaini, Othman and Alahmari, Sultan and Yahya, Abdulsamad Ebrahim and Albouq, Sami Saad and Al Sadig, Mutasim},</i> </p> <p> <i>journal={Scientific Reports},</i> <i>volume={15},</i> <i>number={1},</i> <i>pages={13270},</i> <i>year={2025},</i> <i>publisher={Nature Publishing Group UK London}</i> </p> <p>}</p> <p> <i>18.title={Design of Block-Scrambling-Based privacy protection mechanism in healthcare using fusion of transfer learning models with Hippopotamus optimization algorithm},</i> </p> <p> <i>author={Elhessewi, Ghada Moh Samir and Alzahrani, Mohammed Yahya and Alamgeer, Mohammad and Darem, Abdulbasit A and Albalawneh, Da'ad and Alqahtani, Mohammed and Al Sadig, Mutasim and Alanazi, Sultan},</i> </p> <p> <i>journal={Scientific Reports},</i> <i>volume={15},</i> <i>number={1},</i> <i>pages={20893},</i> <i>year={2025},</i> <i>publisher={Nature Publishing Group UK London}</i> </p> <p>}</p> <p> <i>19. Investigating Blood Cell Images for Enhanced Hematologic Disorder Detection using Multi-Scale Feature Learning with Hybrid Deep Learning Mode</i> </p> <p> <i>author={Mutasim Al Sadig¹, Jamal Alsamri², Nouf Helal Alharbi³, Mashael M Asiri⁴, Mukhtar Ghaleb⁵, Asma A. Alhashmi^{6,*}, Hamad Almansour⁷, Ohud Alasmari⁸,</i> </p>
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	<p><i>journal={Scientific Reports},</i></p> <p><i>{waiting for publication}</i></p> <p>20. <i>{Advanced Crop Health Monitoring for Smart Agriculture Using Fusion of Transfer Learning with Attentive Convolutional Recurrent Neural Network on Remote Sensing Images}</i></p> <p><i>author={ Amani K. Samha1, Nada Alzaben2, Mohammed Abaker3, Faten Derouez4, Wafi Bedewi5, Mohammed Alahmadi6, Asma A. Alhashmi7, and Mutasim Al Sadig8,*}</i></p> <p><i>journal={ JSTARS-2025-03225.R1}</i></p> <p><i>{waiting for publication}</i></p> <p>21. <i>A Lightweight Deep Evidence Fusion Framework for Smart Home Appliance Detection and Classification via Internet of Things Devices</i></p> <p><i>author={ Nuha Alruwais1, Hadeel Alsolai 2, Mohammed Maray3, Wahida MANSOURI4,5, Alanoud Subahi6, Nouf Atiahallah Alghanmi6, Hanadi Alkhudhayr7, Mutasim Al Sadig8*}</i></p> <p><i>journal={Scientific Reports},</i></p> <p><i>{waiting for publication}</i></p>
	<p>NA</p>

Staff Handbook

Name	<i>Wael Mohamed Khedr Selim</i>		
Post	<i>Artificial Neural Networks Models</i>		
Academic career	<i>Assistant Professor)</i>	<i>Zagazig university</i>	<i>2005</i>
	<i>Doctorate</i>	<i>Kazakhstan University</i>	<i>2005</i>
	<i>M.Sc.</i>	<i>Zagazig University</i>	<i>1999</i>
	<i>B.Sc.</i>	<i>Zagazig University</i>	<i>1994</i>
Employment	<i>Assistant. Professor in Majmaah univ.</i>		<i>2014-2025</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>		
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
Important publications over the last 5 years	<p><i>Mohammad Mahmood Otoom, Mahdi Jemmali, Wael M. Khedr</i></p> <p><i>Scheduling algorithms for data-protection based on security-classification constraints to data-dissemination, November 1, 2023, PeerJ Computer Science</i></p> <p><i>Wael M. Khedr, Mohamed W. Abo El-Soud. A Novel Blind and Robust Watermarking Technique of Multiple Images. 2019 International Conference on Computational Science and Computational Intelligence (CSCI). IEEE. 2020.</i></p> <p><i>Wael M. Khedr , Pattern Recognition using Two-Dimensional Kernel Non-negative Matrix Factorization Algorithm, January 2017 , American Journal of Engineering Research (AJER)e-ISSN: 2320-0847 p-ISSN : 2320-0936Volume-6, Issue-12, pp-419-426www.ajer.org</i></p> <p><i>W. Khedr and M. E. Abd El Aziz ,Signal Separation using Non-negative Matrix Factorization</i></p> <p><i>Based on R1-norm , Life Science Journal 2012;9(4).</i></p> <p><i>M. E. ABD EL AZIZ & WAEL KEDER " SPARSE NONNEGATIVE MATRIX BASED ON - DIVERGENCE FOR SINGLE CHANNEL SEPARATION IN COCHLEAGRAM ", International</i></p> <p><i>Journal of Mathematics and Computer Applications Research (IJMCR), ISSN 2249-6955 Vol. 2 Issue 4 Dec 2012 11-24.</i></p>		

	<p><i>Wael M. Khedr and Qammar A. Awad, " Study of Fourier Descriptors and its Laplace Transform for Image Recognition." MatrialScoence Research India vol.8(2), 241-245 ,2011.</i></p> <p><i>Wael M. Khedr and Qammar A. Awad, " Neural Network and Adaptive feature Extraction Technique for Pattern Recognition", MatrialScoence Research India vol.8(1), 1-6 ,2011.</i></p> <p><i>A. M. Raid, W. M. Khedr, M.A. Eldosuky and Wesam Ahmed, " Jpeg Image Compression Using Discrete Cosine Transform - A Survey", IJCSES vol.5, ppt 39-47, April, 2014.</i></p> <p><i>Mohamed Abd El Aziz and Wael Khidr , " Nonnegative matrix factorization based on projected hybrid conjugate algorithm", Springer-Verlag London June, 2014</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Organisation</i></th> <th style="text-align: left;"><i>Role</i></th> <th style="text-align: left;"><i>Period</i></th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Membership without a specific role need not be mentioned</i></td> </tr> </tbody> </table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	<i>Membership without a specific role need not be mentioned</i>		
<i>Organisation</i>	<i>Role</i>	<i>Period</i>					
<i>Membership without a specific role need not be mentioned</i>							

Staff Handbook

Name	<i>Dr. Khalid Nazim S.A.</i>		
Post	<i>Associate Professor, Department of Computer Science & Information</i>		
Academic career	<i>Doctorate:</i>	<i>School of Engineering, Singhania University, Rajasthan, India.</i>	<i>2013</i>
	<i>Computer Science & Engineering</i>		
	<i>Title: Face Recognition by Reconstruction</i>		
	<i>Master's Degree:</i>	<i>M.S. Ramaiah Institute of Technology, Bengaluru, India</i>	<i>2003</i>
	<i>Computer Science & Engineering</i>		
	<i>Undergraduate Degree:</i>	<i>Ghousia College of Engineering</i>	<i>1998</i>
	<i>Bachelor of Engineering</i>		
	<i>Bengaluru South district, India</i>		
Employment	<i>Associate Professor</i>	<i>Majmaah University</i>	<i>2014- Till date</i>
Research and development projects over the last 5 years	NA		
Industry collaborations over the last 5 years	NA		
Patents and proprietary rights	NA		
Important publications over the last 5 years	<p>Total number of publications:16 (Journals) + 8 (Conferences) = 24</p> <ol style="list-style-type: none"> Improved chaotic fruit fly optimization with Elman neural network-based data-driven approach on product reviews classification, Dr. Khalid Nazim Abdul Sattar et.al, Alexandria Engineering Journal, Volume 127,May 2025,Pages 628-641,ISSN 1110-0168, Q1 SJR 1.037(2024) https://doi.org/10.1016/j.aej.2025.05.042. An Efficient Cluster based Routing in Wireless Sensor Networks using Multi objective- Perturbed Learning and Mutation Strategy Based Artificial Rabbits Optimization, Dr. Khalid Nazim Abdul Sattar et.al, IET Communications, March 2025, (ISSN / eISSN:1751-8628 / 1751-8636),Q2, SJR 0.5(2023), Volume 19, Issue 1. https://doi.org/10.1049/cmu2.70020 Heuristically Enhanced Multi-Head Attention Based Recurrent Neural Network for Denial of Wallet Attacks Detection on Serverless Computing Environment, Dr. Khalid Nazim Abdul Sattar et.al, April 2025,Scientific Reports(ISSN / eISSN 2045-2322),Q1, SJR 0.9(2023) https://doi.org/10.1038/s41598-025-87636-x 		

	<p>4. Computer-Aided Diagnosis of Hematologic Disorders Detection Based on Spatial Feature Learning Networks using Blood Cell Images, Dr. Khalid Nazim Abdul Sattar et.al, Scientific Reports, April 2025, (ISSN / eISSN 2045-2322),Q1, SJR 0.9(2023) https://doi.org/10.1038/s41598-025-85815-4</p> <p>5. Machine Learning In Bioinformatics: Disease Prediction Models, Dr. Khalid Nazim Abdul Sattar et. al, Nanotechnology Perceptions Vol.20, S14 (2024) 279-290.DOI : https://doi.org/10.62441/nano-ntp.v20iS14.17,Q4.</p> <p>6. Edge computing and advanced data analytics in monitoring chemical pollution effects on marine life. Dr. Khalid Nazim Abdul Sattar et. al, Bulletin of Pure and Applied Sciences-Zoology (2024): 1067-1079. https://bpsjournals.com/zoology/index.php/journal/article/view/334</p> <p>7. Ensemble Model for Network Intrusion Detection System Based on Bagging Using J48, Dr. Khalid Nazim Abdul Sattar et. al, Advances in Science and Technology Research Journal (ASTRJ), 2023; 17(2):322–329, DOI: https://doi.org/10.12913/22998624/161820</p> <p>8. Promoting Information Privacy Protection Awareness for Internet of Things (IoT), Dr. Khalid Nazim Abdul Sattar et. al, Q2, Hindawi, Mobile Information Systems, Volume 2022, Article ID 4247651, 11 pages, ISSN: 1574-017X (Print), ISSN: 1875-905X (Online), DOI: 10.1155/9071, https://doi.org/10.1155/2022/4247651</p> <p>9. Cross Lingual Handwritten Character Recognition Using Long Short Term Memory Network with aid of Elephant Herding Optimization Algorithm, Dr. Khalid Nazim Abdul Sattar et. al, Q1, Pattern Recognition Letters,2022, ISSN 0167-8655. https://doi.org/10.1016/j.patrec.2022.04.038 (https://www.sciencedirect.com/science/article/pii/S0167865522001490)</p> <p>10. Building Predictive Model of Covid 19 Quarantine Impact on the Purchase of Environmentally Green Products by Using J48 and LMT Algorithms, Dr. Khalid Nazim Abdul Sattar et. al, Q4, IJCSNS, International Journal of Computer Science and Network Security, Vol. 22 No. 1 pp. 517-522 January-Special Issues-2022. https://doi.org/10.22937/IJCSNS.2022.22.1.67 http://paper.ijcsns.org/07_book/202201/20220167.pdf</p> <p>11. Digital Doc A Voice-Based Disease Prediction System, Dr. Khalid Nazim Abdul Sattar et. al, Q4, IJCSNS, International Journal of Computer Science and Network Security, Vol. 22 No. 1 pp. 375-382, January-Special Issues-2022., https://doi.org/10.22937/IJCSNS.2022.22.1.52 http://paper.ijcsns.org/07_book/202201/20220152.pdf</p> <p>12. A Review of Swarm Intelligence Algorithms Deployment for Scheduling and Optimization in Cloud Computing Environments, Dr. Khalid Nazim Abdul Sattar et.al, Q2, SJR 0.81(2020), PeerJ Computer Science 7: e696 ISSN: 2376-5992, August 2021. https://doi.org/10.7717/peerj-cs.696</p>
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13. A Multi-Classifer Feature Fusion based Road Detection for Connected Autonomous Vehicles, Dr. Khalid Nazim Abdul Sattar et.al, applsci-1303325, **Q2**, SJR 0.44(2020), Appl. Sci. 2021, 11(17), 7984, ISSN: 2076-3417, August 2021, ISSN 2076-3417.
<https://www.mdpi.com/2076-3417/11/17/7984/pdf>
<https://doi.org/10.3390/app11177984>
 14. Detection of Levels of Blood Sugar Using Simple IoT Based Breath Analysis, Dr. Khalid Nazim Abdul Sattar et. al, **Q4**, IJCSNS, International Journal of Computer Science and Network Security, Vol. 20 No. 8 pp. 21-29, August 2020.
http://paper.ijcsns.org/07_book/202008/20200804.pdf
 15. Developing a Prediction Model Using J48 Algorithm to Predict Symptoms of COVID-19 Causing Death, Dr. Khalid Nazim Abdul Sattar et. al, **Q4**, IJCSNS, International Journal of Computer Science and Network Security, Vol. 20 No. 8 pp. 80-83, August 2020.
http://paper.ijcsns.org/07_book/202008/20200807.pdf
 16. TADOC: Tool for Automated Detection of Oral Cancer, Dr. Khalid Nazim Abdul Sattar, **Q3**,(IJACSA) International Journal of Advanced Computer Science and Applications, IJACSA Volume 11, Issue 3, March 2020, pp.506-513, (DOI): 10.14569/IJACSA.2020.0110364
<https://thesai.org/Publications/ViewPaper?Volume=11&Issue=3&Code=IJACSA&SerialNo=64>
- Conferences: 8**
1. License Plate Recognition Model based on Improved YOLOv5 and Convolutional LSTM, Dr. Khalid Nazim Abdul Sattar et.al, 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballari, India, June 2025, pp. 1-5,
DOI: 10.1109/ICDCECE65353.2025.11035571.
 2. Task Scheduling Optimization Based on Improve Gray Wolf Optimization with Levy Flight Model using Cloud Workload Data, Dr. Khalid Nazim Abdul Sattar et.al, 2025 International Conference on Distributed Wireless Communication and IoT (ICDCCS-2025) Organized by Kalpataru Institute of Technology, Tiptur, Karnataka., April 2025.
 3. Fault Tolerance using Red Hat OpenShift Framework with Integrated Replication and Checkpointing in Real-Time Cloud Applications, Dr. Khalid Nazim Abdul Sattar et.al, 2025 International Conference on Distributed Wireless Communication and IoT (ICDCCS-2025) Organized by Kalpataru Institute of Technology, Tiptur, Karnataka., April 2025.
 4. Super pixel based Regularized – Convolutional Neural Network for Road Extraction in Satellite Internet of Things, Dr. Khalid Nazim Abdul Sattar et.al, International Conference on Wireless Communication and Internet of Everything (ICWCIE - 2024), 21st & 22nd June 2024, Springer Verlag.

	<p>5. Deep Reinforcement Learning Based Resource Allocation Strategy in Cloud-Edge Computing System, Dr. Khalid Nazim Abdul Sattar et.al, IEEE International Conference on Distributed Computing and Optimization Techniques (ICDCOT) organized by SJBIT, Bangalore on 15th & 16th March 2024.</p> <p>DOI: 10.1109/ICDCOT61034.2024.10515480</p> <p>6. Electroencephalogram Based Emotion Recognition Using Variational Model Decomposition and Long Short-Term Memory, Dr. Khalid Nazim Abdul Sattar et.al, IEEE International Conference on Distributed Computing and Optimization Techniques (ICDCOT) organized by SJBIT, Bangalore on 15th & 16th March 2024.</p> <p>DOI: 10.1109/ICDCOT61034.2024.10516087</p> <p>7. Breast Histopathology Image Embedding's in Invasive Ductal Carcinoma Detection Using Self-Supervised Vision Transformers Techniques, Dr. Khalid Nazim Abdul Sattar et.al, IEEE International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT) (EASCT-2023) in association with IEEE Bangalore Section during 20 & 21 October 2023 at RV Institute of Technology and Management (c), JP Nagar, Bangalore, Karnataka.</p> <p>DOI:10.1109/EASCT59475.2023.10393320</p> <p>8. Prediction and Analysis of Air Quality Index using Machine Learning Algorithms, Dr. Khalid Nazim Abdul Sattar et.al, IEEE International Conference on Data Science and Information System (ICDSIS-2022), organized by Malnad College of Engineering, Hassan, India in association with IEEE Bangalore Section and IEEE Mysuru Subsection on 29-30, July 2022, Date Added to IEEE Xplore: 14 October 2022.</p> <p>https://ieeexplore.ieee.org/document/9915802,</p> <p>DOI: 10.1109/ICDSIS55133.2022.9915802</p>												
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1"> <thead> <tr> <th data-bbox="501 1279 810 1317"><i>Organisation</i></th> <th data-bbox="810 1279 1098 1317"><i>Role</i></th> <th data-bbox="1098 1279 1513 1317"><i>Period</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="501 1384 810 1422">ISTE – Indian society for Technical Education, India</td> <td data-bbox="810 1384 1098 1422">– Life Member</td> <td data-bbox="1098 1384 1513 1422"></td> </tr> <tr> <td data-bbox="501 1473 810 1512">CSI – Computer Society of India, India</td> <td data-bbox="810 1473 1098 1512">– Life Member</td> <td data-bbox="1098 1473 1513 1512"></td> </tr> <tr> <td data-bbox="501 1563 810 1601">IEI – Institution of Engineers, India</td> <td data-bbox="810 1563 1098 1601">– Life Member</td> <td data-bbox="1098 1563 1513 1601"></td> </tr> </tbody> </table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	ISTE – Indian society for Technical Education, India	– Life Member		CSI – Computer Society of India, India	– Life Member		IEI – Institution of Engineers, India	– Life Member	
<i>Organisation</i>	<i>Role</i>	<i>Period</i>											
ISTE – Indian society for Technical Education, India	– Life Member												
CSI – Computer Society of India, India	– Life Member												
IEI – Institution of Engineers, India	– Life Member												

Staff Handbook

Name: Dr. Maria Al taib Badawi

Position: Coordinator, Department of Computer and Information Sciences, College of Science, AL Majmaah University.

Teaching Area and Job Title: Computer Science and Information Technology - Cybersecurity

Post : Assistant Professor

Academic Career:

PhD Degree Electronic Encyclopedia of Agricultural Crops in Sudan using security and privacy tools	University Of Al neleen	2015
M.Sc. Degree (Using Samba To Communicate Two Device With Under Different Operating System)	University Of Al neleen	2005
B. Sc. Degree	khartoum University	2000

Employment:

Position	Employer	Period
Coordinator, Department of Computer and Information Sciences—Female Section	Majmaah University – College of Science	May 2022 – Present
Assistant Vice Dean for Student Affairs – Female Section	Majmaah University-- College of Science	Dec 2018 – Jan 2022
Member of the Examination Committee, College of Science	Majmaah University-- College of Science	2021----2019
Assistant Professor	Majmaah University--- College of Science	2015 – Present

Research and Development Projects (Last 5 Years):

Name of Project / Research Focus	Period	Partners
Toward a New Safer Cybersecurity Posture using RC6 & RSA as Hybrid Crypto-Algorithms with VC Cipher ,	January 2023	University of Manchester
Phishing Email Detection Using Machine Learning Techniques	2022	Majmaah University
Helping patients with depression: An Arabic application-assisted approach using cognitive behavioural therapy	2021	Majmaah University

Analysis of (IaaS) Cloud Computing Security Issues Concerning Websites, Moodle eLMS as an Example , 2020,ISI	2020	Majmaah University
Investigating the Electronic Examinations' Quality from Faculty Members' and Students' Experiences and Perspective, Arab World English Journal (AWEJ), ISI ,2022	2022	Majmaah University

Industry Collaborations (Last 5 Years): None

Patents and Proprietary Rights: None

Important Publications (Last 5 Years):

Title	Authors	Publisher / Details
Artificial neural networks analysis for non-newtonian nanofluid flow with variable viscosity and MHD effects in wire covering processes	Maria Altaib Badawi, Nehad Ali Shah, Imed Boukhris, Adel Thaljaoui	Lecture Notes in Computer Science, Springer,
Evaluation of variable MHD flow with Nernst-Planck model under the effect of entropy generation and chemical reactions	Maria Altaib Badawi, Waris Khan, Wajid Ullah Jan, Fethi	Journal Results in Engineering
Computational analysis of tri-hybrid casson nanofluid flow in the conical gap between a rotating disk and cone using blood as the base fluid: An application to spinning devices	Maria Altaib Badawi, Yasir Mehmood, Adel Thaljaoui, Imed Boukhris, Asia Rehman, Muhammad Bilal	Journal Results in Engineering
Magnetohydrodynamic flow of Casson fluid through an oscillatory stretching sheet an unsteady and incompressible condition	Hamdullah Khan, Waris Khan, Yasser Elmasry, Maria Altaib Badawi,	ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik

Staff Handbook

Name	<i>Sarah Mustafa Eljack Babiker</i>			
Post	<i>Computer Science And Information , Computer Engineering, Computer Networks, Network security</i>			
Academic career	Degree	Subject / Title	Institute	Year
	Doctorate Degree (PhD)	Information and Communication Engineering (Medium Access Control Protocols with Efficient Enhancement For Cognitive Radio Networks)	Huazhong University of Science and Technology (HUST) Wuhan - P.R.China.	Jan. 2011
	Master of science Degree (M.Sc)	Computer Networks Engineering (Implementation of RSA Algorithm for Security in Computer Networks)	Jezira University Khartoum - Sudan.	Sep. 2003
	Bachelor Degree	Electronics Engineering	Sudan University of Science and Technology. (SUST) Khartoum – Sudan	Oct. 2000
Employment	<i>Position</i>	<i>Employer</i>		<i>Period</i>
	Assistant Professor	Majmaah University		2014 – to Present
	Assistant Professor	Sudan University for Science and Technology (SUST)		2011 - 2014
	Lecturer	Sudan University for Science and Technology (SUST)		2004 - 2010
	Teaching Assistant	Sudan University for Science and Technology (SUST)		2000 - 2003
Research and development projects over the last 5 years	<p><i>Name of project or research focus:</i> Intelligent Solution System for Security and Cost-optimized Cloud Based on Load Balancing: A Novel Model and Clustering-Algorithms</p> <p><i>Period and any other information :</i> 1.5 years</p> <p><i>Partners, if applicable :</i> Majmaah University , Computer Department and others colleges</p>			
Industry collaborations	<i>None</i>			

over the last 5 years			
Patents and proprietary rights	<i>None</i>		
Important publications over the last 5 years	Publication title	Journal name	Year
	A secure solution based on load-balancing algorithms between regions in the cloud environment	PeerJ. Computer science ISSN 2376-5992 (Online)	DEC 2023
	r Intelligent Solution System for Cloud Security Based on Equity Distribution: Model and Algorithms	Computers, Materials & Continua ISSN:1546-2218(print) ISSN:1546-2226(online)	JAN 2024
	Deep neural network-based predictive modeling of entropy generation in electroosmotic transport of six-constant	Nonlinear Dynamics	July 2025
	Hybrid recurrent with spiking neural network model for enhanced anomaly prediction in IoT networks security	Frontiers in Artificial Intelligence	Sept. 2025
	Smart deep neural network modeling for electroosmotic transport of non-Newtonian Nano fluids with microbial species in a peristaltic channel under modified Darcy's law	Hydrogen Energy Publications LLC. Published by Elsevier Ltd	Sept. 2025
Activities in specialist bodies over the last 5 years	<i>None</i>		

Staff Handbook

Please fill out and submit one table per person.

Name	<i>Afaf Abdel Rahman Mohammed Tuka</i>
Post	Assistant Professor,
Academic career	<p><i>Doctorate Sudan University 2013 of Science</i></p> <p><i>M.Sc. University of Gezira, Sudan 2003</i></p> <p><i>B.Sc. University of Nilein, Sudan 1994</i></p>
Employment	Assistant Professor <i>Period</i>
Research and development projects over the last 5 years	<p><i>Information Retrieval Systems: Between Morphological Analysers' and stemming Algorithms</i></p> <p><i>Chafika Ouni Sarah Mustafa Eljack and Fayez Alfyez Afaf Abdel Rhman Mohamed 2021</i></p>
Industry collaborations over the last 5 years	<p><i>Project title</i></p> <p><i>Partners</i></p>
Patents and proprietary rights	<p><i>Title</i> <i>Year</i></p>
Important publications over the last 5 years	<ul style="list-style-type: none"> <p>• <i>A hybrid fuzzy brain-storm optimization algorithm for the classification of brain tumor MRI images</i></p> <p><i>Authors: C Narmatha, Sarah Mustafa Eljack, Afaf Abdul Rahman Mohammed Tuka, S Manimurugan, Mohammed Mustafa</i></p> <p><i>Published: August 14, 2020</i></p> <p><i>Journal of Ambient Intelligence and Humanized Computing</i></p> <p><i>Publisher: Springer Berlin Heidelberg</i></p> <p>• <i>Information Retrieval Systems: Between Morphological Analyzers and Stemming Algorithms</i></p> <p><i>Authors: Sarah Mustafa Eljack and Fayez Alfayez, Afaf Abdel Rhman Mohamed, Chafika Ouni</i></p> <p><i>Published: March 7, 2021</i></p> <p><i>Journal: International Journal of Computer Science and Network Security</i></p> <p><i>Volume</i></p>



	<i>Publisher: IJCSNS</i>
Activities in specialist bodies over the last 5 years	<i>Organisation Role Period</i> <i>Membership without a specific role need not be mentioned</i>

Staff Handbook

Name	<i>Nasreen Sultana Quadri</i>		
Post	Lecturer, Department of Computer and Information Sciences, College of Science, Majmaah University		
Academic career	<i>B. Tech. Degree</i>	<i>JNT University (India)</i>	<i>2003-2007</i>
	<i>MTech. Degree</i>	<i>JNT University (India)</i>	<i>2010-2012</i>
	<i>PhD Degree</i>	<i>SJJT university (India)</i>	<i>2018-2025</i>
Employment	<i>Lecturer</i>	<i>Majmaah University</i>	<i>2014-Present</i>
Research and development projects over the last 5 years	<i>None</i>		
Industry collaborations over the last 5 years	<i>None</i>		
Patents and proprietary rights	<i>None</i>		
Important publications over the last 5 years	Intrusion Detection system for Cyber Security in Smart Agriculture with ABCIS Techniques-Journal of Theoretical and Applied Information Technology-2024		
Activities in specialist bodies over the last 5 years	<i>None</i>		

Staff Handbook

Name: *T.Chafika Laabidi Ouni*

Teaching Area and Designation: *Artificial Intelligence, Neural Network, Deep learning, NLP, and Information Retrieval.*

Academic Career

Degree	Subject /Title	Institution	Year
Master's	<i>Intelligent Information System</i>	<i>Kairouan University-Tunisia</i>	<i>2012</i>
Bachelor's	<i>Computer science: Advanced Database</i>	<i>Kairouan University-Tunisia</i>	<i>2009</i>
Bachelor's	<i>Electronic and Telecommunication</i>	<i>Sfax University, Tunisia</i>	<i>2006</i>

Employment

Position	Employee	Period
Lecturer	<i>Majmaah University-College of Science</i>	<i>September 2014-present</i>

Research and Development Projects (Last 5 Years): *None*

Industry Collaborations (Last 5 Years): *None*

Patents and Proprietary Rights: *None*

Important Publications (Last 5 Years):

Author(s) Title Publisher / Details	Author(s) Title Publisher / Details	Author(s) Title Publisher / Details
<i>Chafika Ouni</i>	<i>Information Retrieval Systems: Between Morphological Analyzers and Systemming Algorithms</i>	<i>IJCSNS International Journal of Computer Science and Network Security, VOL.22 No.3, March 2022</i>

Activities in Specialist Bodies (Last 5 Years): *None*

Staff Handbook

Name	<i>Hajer Moujahed Brahim</i>		
Post	<i>Lecturer, Department of Computer Science & Information</i>		
Academic career	Doctorate in Intelligent Systems – Advanced Deep Learning Applications	University of Tunis El Manar	In progress
	Master’s Degree (Intelligent Decision-Support Systems and Data Analytics)	University of Gabes	2013
	Bachelor’s Degree (Computer Science – LFSI)	University of Gafsa	2010
Employment	<i>Lecturer</i>	<i>Majmaah University</i>	<i>2014- Till date</i>
Teaching Area and Designation:	Artificial Intelligence, Deep Learning, Computer Vision, Machine Learning, Robotics, Natural Language Processing (NLP), and Programming (C++, C#, MATLAB, and Python).		
Research and development projects over the last 5 years	<p>SPARK Academy – AI Training for Medical Imaging <i>Period: 2024</i></p> <p><i>Collaborators:</i> Consortium for Advancement of MRI Education and Research in Africa</p> <p><i>Description:</i> Capacity-building project in deep learning and medical imaging knowledge translation across African research institutions.</p>		
Industry collaborations over the last 5 years	<p>Digital Innovation and Open Hackathon – Majmaah University <i>Partners / Organizers:</i> Majmaah University, K.A.CARE (King Abdullah City for Atomic and Renewable Energy), and Digital Saudi</p> <p><i>Role:</i> Supervisor of award-winning student innovation projects (<i>Face Smart Check, SolarAI-Lifespan, EnergyTwin</i>)</p> <p><i>Year: 2025</i></p>		
Patents and proprietary rights	NA		
Important publications over the last 5 years	<ul style="list-style-type: none"> Nadia Smairi, Houda Abadlia, Hajer Brahim, and Wided Lejouad Chaari. <i>Fine-tune BERT Based on Machine Learning Models for Sentiment Analysis. Procedia Computer Science, Elsevier, Vol. 246, 2024, pp. 2390–2399.</i> DOI: 10.1016/j.procs.2024.09.531 Mona Alzuwaid and Hajer Brahim. <i>Rieaya: New Mobile Application for the Elderly Care Services at Home during the COVID-19 Pandemic in Saudi Arabia.</i> <i>IJSCSNS – International Journal of Computer Science and Network</i> 		

	<p><i>Security</i>, Vol. 22, No. 4, April 2022, pp. 663–670. Available at: http://paper.ijcsns.org/07_book/202204/20220477.pdf</p> <ul style="list-style-type: none"> • E. A. Alweshail and H. Brahim. <i>A Smartphone Application to Provide the Health Care Services at Home. Proceedings of the 3rd International Conference on Computer Applications & Information Security (ICCAIS)</i>, Riyadh, Saudi Arabia, 2020. DOI: 10.1109/ICCAIS48893.2020.9096758
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. Student Activities Committee – Department of Computer Science – Member (2025 – Present) 2. Innovation and Entrepreneurship Unit – College of Science – Member (2025 – Present) 3. Quality & Accreditation Unit – Department of Computer Science – Member (2020 – Present) 4. Graduation Projects Committee – Department of Computer Science – Member (2021 – 2022) 5. Measurement & Evaluation Unit – College of Science – Coordinator (2021 – 2022) 6. Academic Guidance Committee – Department of Computer Science, Member (2020 – 2023) 7. Department Coordination (Female Section) – Department of Computer Science – Coordinator (2020)

Staff Handbook

Name	<i>Hanen Awad Alqahtani</i>		
Post	<i>Lecturer (Software Engineering, Networking, Security)</i>		
Academic career	<i>Initial academic appointment</i>	<i>Majmaah University</i>	<i>2011</i>
	<i>Habilitation [German post-doctoral qualification] (subject)</i>	-	-
	<i>Doctorate (Networking, AI)</i>	<i>The Catholic University of America</i>	<i>In progress</i>
	<i>Master's (System Security & Management)</i>	<i>Saint Joseph's University</i>	<i>2009</i>
	<i>Undergraduate degree (Computer Science)</i>	<i>King Saud University</i>	<i>2005</i>
Employment	<i>Lecturer</i>	<i>Majmaah University</i>	<i>2011-Current</i>
	<i>Teaching Assistant</i>	<i>Dhurma College</i>	<i>2006</i>
Research and development projects over the last 5 years	<i>Collaborated research between The Catholic University of America and InterDigital .</i>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<i>Mobile Edge Cloud System: Architectures, Challenges, and Approaches</i> <i>IEEE Systems Journal 12(3), 2495-2508</i>		
Activities in specialist bodies over the last 5 years	<i>Saudi Scientists Society for Cybersecurity</i> <i>Graduation Projects, Innovation, and Entrepreneurship Committee</i> <i>Laboratories and IT Committee</i> <i>Graduates Committee</i>		



Students Activities Committee

Staff Handbook

Name: Amal Hamad Alhamad

Post: Lecturer Assistant, Department of Computer and Information Sciences, College of Science, Majmaah University

Computer Science and Information Technology — Computer Graphics — Cloud Computing, Operating Systems, and Data Science

Academic Career:

Degree	Subject / Title	Institution	Year
Diploma	Multimedia and Web Technologies	Technical and Vocational Training Corporation	2024
Bachelor's	Computer Science and Information	Majmaah University	2021

Employment:

Position	Employer	Period
Lecturer Assistant	Majmaah University – College of Science	2025 – Present
Teaching Assistant, Department of Computer and Information Sciences	Majmaah University	2024 – 2025
Project Manager	Bayan Academy	2023 – 2025
Business Development Manager	Saudi Scientific Society for Cybersecurity	2024 – Present
Human Resources Specialist	Technical and Vocational Training Corporation (TVTC)	2024 – 2025
Trainer	Technical and Vocational Training Corporation (TVTC)	2023 – 2024

Research and Development Projects (Last 5 Years):

Name of Project / Research Focus	Period	Partners	Amount of Financing
TVI Initiative: Technology, Vision, and Innovation — Community Awareness and Cybersecurity Education	2025	Saudi Scientific Society for Cybersecurity	N/A
AI Applications in Cybersecurity: Opportunities and Challenges	2024	TVTC	N/A

Industry Collaborations (Last 5 Years): None

Patents and Proprietary Rights: None

Important Publications (Last 5 Years):

Author(s)	Title	Publisher / Details
Alhamad, A.H.	An Analysis of Various Social Engineering Attacks in Social Networks Using Machine Learning Algorithms.	IJCSNS International Journal of Computer Science and Network Security.
Alhamad, A.H.	Examination of Assorted Social Engineering Attacks by Different Types of Machine Learning Algorithms.	International Journal of Computer Science and Mobile Computing

Activities in Specialist Bodies (Last 5 Years):

Organization	Role	Period
Saudi Scientific Society for Cybersecurity	Active Member	2023–Present
College of Science — Schedule Committee	Member	2025–Present

Staff Handbook

Name: Jana Mohammad Abdullah Alqashaami

Post: Teaching Assistant, Department of Computer and Information Sciences, College of Science, Majmaah University

Teaching Area and Designation: Computer Science and Information Technology — Data Science, Artificial Intelligence, and Deep Learning

Academic Career:

Degree	Subject / Title	Institution	Year
Master's	Data Science	Qassim University	Expected 2026
Bachelor's	Computer Science and Information	Majmaah University	2023

Employment:

Position	Employer	Period
Teaching Assistant	Majmaah University	October 2025 – Present

Research and Development Projects (Last 5 Years): None

Industry Collaborations (Last 5 Years): None

Patents and Proprietary Rights: None

Important Publications (Last 5 Years):

Author(s)	Title	Publisher / Details
Norah A. Alturaiqi; Jana M. Alqashami; Dina M. Ibrahim	Critical_TSA: Twitter Sentiment Analysis in Critical Event Using Python	2025 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA)

Activities in Specialist Bodies (Last 5 Years): None

Staff Handbook

Name: Lama Alhamad.

Post: Teaching Assistant College of Science, Majmaah University

Teaching Area and Designation: Computer Science and Information Technology — information security and privacy .

Academic Career:

Degree	Subject / Title	Institution	Year
Master's	Information security and privacy	Cardiff University	2020
Bachelor's	Computer science	Majmaah University	2015

Employment:

Position	Employer	Period
Teaching Assistant	Majmaah University – College of Science	Present

Research and Development Projects (Last 5 Years):

Name of Project / Research Focus	Period	Partners	Amount of Financing
Prediction of beliefs through tracking of eye movement	2019–2020	Cardiff university	N/A

Industry Collaborations : None

Proprietary Rights: None

Important Publications (Last 5 Years):none

Activities in Specialist Bodies :none

Staff Handbook

Name: Norah alturaiqi

Post: Teaching Assistante

Teaching Area and Designation: Computer Science and Information Technology — Data Science

Academic Career:

Degree	Subject / Title	Institution	Year
Master's	Data Science	Qassim University	2023-Recent
Bachelor's	Computer Science and Information Technology	Majmaah University	2023

Employment:

Position	Employer	Period
Teaching Assistant	Majmaah University	2025
Adjunct Faculty Member	Majmaah University	2024-2025

Research and Development Projects (Last 5 Years):

Name of Project / Research Focus	Period	Partners	Amount of Financing
Detection of OCD Using DTI and Transfer Learning for MRI Images	2025	Qaasim university	N/A

Industry Collaborations (Last 5 Years): None

Patents and Proprietary Rights: None

Important Publications (Last 5 Years):

Author(s)	Title	Publisher / Details
Norah A. Alturaiqi ,Wijdan S. Aljebreen ,Wedad Alawad,Shuaa S. Alharbi andHaifa F. Alhasson	Neuroimaging and Machine Learning in OCD: Advances in Diagnostic and Therapeutic Insights	Alturaiqi, N.A.; Aljebreen, W.S.; Alawad, W.; Alharbi, S.S.; Alhasson, H.F. Neuroimaging and Machine Learning in OCD: Advances in Diagnostic and Therapeutic Insights. <i>Brain Sci.</i> 2025 , <i>15</i> , 1106. https://doi.org/10.3390/brainsci15101106
Norah A. Alturaiqi; Jana M. Alqashami; Dina M. Ibrahim	Critical_TSA: Twitter Sentiment Analysis in Critical Event Using Python	N. A. Alturaiqi, J. M. Alqashami and D. M. Ibrahim, "Critical_TSA: Twitter Sentiment Analysis in Critical Event Using Python," <i>2025 5th International Conference on Emerging Smart Technologies and Applications (eSmarTA)</i> , Ibb, Yemen, 2025, pp. 1-9, doi: 10.1109/eSmarTA66764.2025.11132106.

Activities in Specialist Bodies (Last 5 Years):

None