



Obaida M. Al-Hazaimah

Professor of Computer Science - Network Security

AL-Balqa Applied University – (BAU), Jordan

Department of Computer Science

Major : Computer Science**Minor :** Network Security (Cybersecurity)**CONTACT :**✉ E-mail: dr_obaida@bau.edu.jo✉ E-mail: dr_obaidam@yahoo.com

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S Skype: Prof Obaida Moh.

PERSONAL INFORMATION

Place of Birth	: Jordan, Irbid
Date of Birth	: December 17, 1982
Religion	: Islam
Nationality	: Jordanian

THE SUMMARY AND OBJECTIVE

Prof. Dr. Obaida Al-hazaimeh earned his a Ph.D. in Computer Science from University Utara Malaysia (UUM) in 2011. He has authored over 53+ research papers published in esteemed international journals and conferences, including those by IEEE, Elsevier, ACM, Springer, and Inderscience. His contributions have been recognized with numerous international awards, and he has presented his work in several countries. **Prof. Al-hazaimeh** actively serves as a reviewer for prestigious journals such as those published by IEEE, Springer, Wiley, and Taylor & Francis. Notably, one of his 2017 publications appeared in the journal Neural Computing and Applications (Impact Factor: 5.102, Scopus **Q1**). His research interests focus on advanced network security and monitoring, particularly in the areas of Internet infrastructure security, artificial intelligence, botnets, IoT, and cloud computing. He currently holds the position of Full Professor at Al-Balqa Applied University. **Prof. Al-hazaimeh** is committed to advancing both his academic contributions and national progress in the field of information technology. His primary objective is to continue developing innovative research that enhances cybersecurity infrastructure and to contribute meaningfully to the academic community, students, and institutions through dedication, expertise, and ongoing scholarly efforts.

ACADEMIC QUALIFICATIONS

Doctor of Philosophy degree in Network Security , University Utara Malaysia (UUM). Dissertation Title: "NEW CRYPTOGRAPHIC ALGORITHMS FOR ENHANCING SECURITY OF VOICE DATA".	
Program Structure	: Research -Thesis
Mode of study	: Full time
📅 2007 - 2010	📍 Malaysia
Master degree in Computer science , University Science Malaysia (USM). Mini-Thesis Title: "ANALYZING IMAGES USING IMAGE THRESHOLDING TECHNIQUES".	
Program Structure	: Mixed mode
Mode of study	: Full time
📅 2005 - 2006	📍 Malaysia
Bachelor degree in Computer science , Applied Science University (ASU).	
Program Structure	: Courses GPA - 70.5/100.0
Mode of study	: Full time
📅 2000 - 2004	📍 Jordan

CGPA - 3.6/4.0

SPECIALIZATION

Computer Science, Cybersecurity, Network Security, Cryptography, Image Processing, Steganography, Optimization, IoT, Cryptanalysis, Encryption, Decryption, and Big Data Analysis

RESEARCH INTEREST

Prof. Obaida M. Al-Hazaimeh's current research focuses on the intersection of Artificial Intelligence (AI) and Cybersecurity, with a particular emphasis on cryptography. His work aims to develop electronic equivalents of core security primitives, including confidentiality, integrity, identification, and authentication. The research involves the design of advanced cryptographic protocols and the development of intelligent security architectures for computer systems, leveraging AI methodologies. Theoretical foundations are rooted in number theory, while also exploring other mathematical frameworks such as elliptic curve cryptography, braid theory, and chaos theory to enhance cryptographic strength and efficiency. The overarching goal is to create secure, intelligent, and efficient solutions for modern cybersecurity challenges.

WORK EXPERIENCE

Feb. 2011 – Jul. 2011	: Assistant Professor - Department of Computer Science and Information Technology. JADARA University, Jordan.
Jul. 2011 – Feb. 2013	: Fulltime lecturer - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Feb. 2013 – Sep. 2014	: Assistant Professor - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Sep. 2014 – Sep. 2015	: Head of Department - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Sep. 2015 – Sep. 2020	: Associate Professor - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Sep. 2020 – Oct. 2021	: Dean Assistant for Vocational and Technical Education , Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Oct. 2021 - May. 2022	: Associate Professor - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
May. 2022 – Oct. 2022	: Professor - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Oct. 2022 – Aug. 2023	: Dean Assistant for scientific research and postgraduate studies , Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Aug. 2023 – Oct. 2024	: Professor - Department of Computer Science and Information Technology, Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Oct. 2024 – Oct. 2025	: Sabbatical Leave – Professor – Department of Information Security and Cybersecurity, Faculty of Information Technology, Philadelphia University, Jordan.
Oct. 2025 – To date	: Sabbatical Leave – Professor – Department of Information Security and Cybersecurity, Faculty of Information Technology, JADARA University, Jordan.

ACADIMIC PROMOTIONS

Jul. 2011	: Fulltime lecturer - Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Feb. 2013	: Assistant Professor - Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
Mar. 2016	: Associate Professor - (EXCEPTIONAL Performance – Double Points Award) - Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.
May. 2021	: Full Professor - Al-Balqa Applied University (BAU), AL-HUSON University College, Jordan.

FELLOWSHIP

Awarded a fellowship to participate in the Erasmus+ co-funded intensive training workshop on the development and deployment of remote and virtual laboratories (**RL4Eng**), enhancing engineering education across South Mediterranean and Sub-Saharan higher education institutions, hosted by the University of Castilla-La Mancha, Spain, February 2024.

TEACHING PHILOSOPHY

My role as an instructor has provided me with valuable insights into the intricacies of how individuals learn a fundamental aspect of effective teaching. A particularly intriguing experience arose when I endeavored to elucidate the practical implications of cybersecurity in everyday life. I have found that the key to success in teaching lies in connecting with the audience by commencing with their existing knowledge and building upon it. Within the classroom, my primary objective is to foster independent thinking and analytical reasoning, thereby enhancing students' problem-solving skills and dissuading mere memorization. This approach invariably sparks dynamic classroom discussions, from which emanate intellectually stimulating inquiries and debates that defy simple solutions. I firmly believe that a teacher should be fully immersed in the educational journey, displaying unwavering dedication to their students and a readiness to invest time and energy into their development. A deep-rooted love for teaching kindles a passionate commitment to the craft. My teaching philosophy rests on three foundational tenets. First, I consistently encourage my students to engage in discourse and nurture their individual capabilities. Second, I employ educational research as a compass to guide my ongoing improvement efforts. Lastly, I view a teacher as a leader, one who not only imparts knowledge but also illuminates the path, motivates, encourages, and leads by setting a compelling example.

TEACHING EXPERIENCE

Actively involved in teaching a variety of higher education courses; a summary of relevant courses is outlined below.

<u>Title / Subject</u>	<u>Term</u>	<u>Academic Year</u>	<u>Academic Level</u>	<u>Institution</u>
Managerial Mathematics	1 st	2009/2010	Postgraduate	UUM
Operating System	1 st	2010/2011	Postgraduate	ASU
Algorithms Design and Analysis	1 st	2010/2011	Undergraduates	ASU
Introduction to Computer Design	1 st	2011/2012	Undergraduates	ASU
Internet Skills	1 st	2011/2012	Undergraduates	JADARA
(CS 101) Computer Skills	2 nd	2011/2012	Undergraduates	JADARA
Discreet	2 nd	2011/2012	Undergraduates	JADARA
Algorithms	2 nd	2011/2012	Undergraduates	JADARA
Programming in C++	2 nd	2011/2012	Undergraduates	JADARA
Publishing on the Internet	1 st	2011/2012	Undergraduates	JADARA
Network Security	1 st	2011/2012	Undergraduates	BAU
Algorithms	2 nd	2012/2013	Undergraduates	BAU

Computation Theory	2 nd	2012/2013	Undergraduates	BAU
Data Structure Principles	2 nd	2012/2013	Undergraduates	BAU
Advance Data Structure	1 st	2012/2013	Undergraduates	BAU
Routing and Switching	1 st	2011/2012	Undergraduates	BAU
Programming in C++	2 nd	2012/2013	Undergraduates	BAU
Compiler Design	1 st	2011/2015	Undergraduates	BAU
Programming in Java	2 nd	2013/2014	Undergraduates	BAU
Image Processing	2 nd	2013/2014	Undergraduates	BAU
System Analysis and Design	2 nd	2014/2015	Undergraduates	BAU
Special Topics/Data Mining	1 st	2015/2016	Undergraduates	BAU
Computer Graphics	1 st	2016/2017	Undergraduates	BAU
Mobile Ad-Hoc Security	1 st	2017/2018	Undergraduates	BAU
Data Structure	2 nd	2019/2020	Undergraduates	BAU
Security analysis	2 nd	2019/2020	Undergraduates	BAU
Compiler Design	2 nd	2019/2020	Undergraduates	BAU
Special Topics/Cryptography	1 st	2021/2022	Undergraduates	BAU
Artificial Intelligent	1 st	2021/2022	Undergraduates	BAU
Special Topics/ Network Advanced	2 nd	2021/2022	Undergraduates	BAU
Principles of Network	2 nd	2021/2022	Undergraduates	BAU
Modern Encryption	1 st	2022/2023	Undergraduates	BAU
Compiler Design and Automation	1 st	2022/2023	Undergraduates	BAU
Special Topics/Cryptography	1 st	2022/2023	Undergraduates	BAU
Computer and Network Forensiec-1	2 nd	2022/2023	Undergraduates	BAU
Computer and Network Forensiec-2	2 nd	2022/2023	Undergraduates	BAU
Compiler design and automation	2 nd	2023/2024	Undergraduates	BAU
Theory of Computation and Automata	2 nd	2023/2024	Undergraduates	BAU
Principles of Computer Networks	2 nd	2023/2024	Undergraduates	BAU
Wireless Computer Network	1 st	2024/2025	Undergraduates	Philadelphia
Network Security	1 st	2024/2025	Undergraduates	Philadelphia
Wireless Computer Network	2 nd	2024/2025	Undergraduates	Philadelphia
Digital Forensics	2 nd	2024/2025	Undergraduates	Philadelphia
Cybersecurity Attacks and Defense Strategies	1 st	2025/2026	Undergraduates	JADARA
Networks Security	1 st	2025/2026	Undergraduates	JADARA
Wireless and Cloud Networks	1 st	2025/2026	Undergraduates	JADARA

RELEVANT ACADEMIC COURSEWORK

Network Simulation, Research Methodology, Advanced Operating System, Advanced Database System, Advanced System Analysis, Software Engineering, Advanced Computer Networks, Advanced Knowledge Based System, Information System Management, E-Business, Research Project in Information System, many of programming language (i.e. JAVA, C++, C#...et).

AREAS OF EXPERTISE

- Cryptographic.
- Network Forensics.
- Artificial Intelligent
- Modern Encryption.
- Wireless Network.
- Switching and Routing.

- Distributed Systems.
- Image Processing.
- Information Technology.
- Mobile Ad-Hoc Security.
- Machine Learning.
- Steganography.
- Optimization.
- Cyber-security attacks

LANGUAGE SKILLS

LANGUAGE		<u>READING</u> 	<u>SPEAKING</u> 	<u>WRITING</u> 	<u>LISTENING</u> 
ARABIC		Excellent	Excellent	Excellent	Excellent
ENGLISH		Excellent	Excellent	Excellent	Excellent
[Note: Achieved a TOEFL iBT score of 97/120, demonstrating strong proficiency in academic English (ETS-certified)].					

COMPUTER SKILLS-
PROGRAMMING LANGUAGES
AND TOOLS

- MATLAB 2010a-2018 (Professional).
- Security analysis tools (NIST, and DIEHARD).
- Machine Learning Tools: Weka, Knime, and Orange.
- ASP Technology: Microsoft FrontPage, Dreamweaver and ASP.NET.
- Programming Languages: FORTRAN, VB.NET, Pascal, C++, Java, C#.
- Database Management such as Oracle, SQL Server, and Ms Access.

ACADEMIC ACTIVITIES &
MEMBERSHIPS -
PROFESSIONAL COMMITTEES

- Member of the supreme committee to ensure the quality of academic programs at JADARA University (2010-2011).
- Member of university strategic planning committee at Al-Balqa Applied University. Department of Information Technology (2013-2017).
- Member of selective academic's books at Al-Balqa Applied University. Department of Information Technology (2012-2019).
- Establishment committee member of specialty engineering diploma smart devices in department of Information Technology, Al-Huson University College, Al- Balqa Applied University (2014).
- Member of scientific research committee at Al-Balqa Applied University. AL-HUSON University College (2014-2018).
- Establishment committee member of specialty (Information and Network Security) (Diploma degree) in the department of Information Technology, Al-Huson University College, Al- Balqa Applied University (2014).
- Supervisor and Coordinator for Graduation Project/ Dept of Information Technology / Al-Balqa' Applied University (2013 – 2019).
- Member of student's affairs committee at Al-Balqa Applied University. AL-HUSON University College (2012-2016).

- Member of courses transfer committee at Al-Balqa Applied University. AL-HUSON University College (2013-2018).
- Member of laboratories and tenders committee at Al-Balqa Applied University. AL-HUSON University College (2015-2017).
- Member of scientific day committee at Al-Balqa Applied University. AL-HUSON University College. Department of Information Technology (2015-2022).
- Member of exams committee of several computer science courses at Al-Balqa Applied University. Department of Information Technology.
- Acting as external examiner for MS students at The University of Jordan, YARMOUK University, and AL-ALBET University (2014-2018).
- Member of the general committee to repair the certification exam (Diploma) at Al-Balqa Applied University, Jordan, (2012-2018).
- Member of the Jordanian Higher National Committee for Empowerment and Employment– Ministry of Labor 2018.
- Member of the supreme committee to ensure the quality of academic programs (Diploma) at Al-Balqa Applied University, Jordan, (2019-2020).
- Member of University Strategic Planning Committee, Al- Balqa Applied University, (2020-2021).
- Member of the University Library Committee, Al- Balqa Applied University, (2020-2021).
- Member of Consultations, Studies and Training Center Steering Committee, Al- Balqa Applied University, (2020-2022).
- Member of postgraduate studies committee- Faculty of postgraduate studies. Al- Balqa Applied University, (Sep. 15, 2022).
- Chair of scientific research committee - AL-HUSON University College, Al-Balqa Applied University, (Sep. 15, 2022).
- Member of promotion committee - AL-HUSON University College, Al-Balqa Applied University, (Sep. 15, 2022 - 2024).
- Member of the Graduate Studies committee – Postgraduate studies, Al-Balqa Applied University, (Sep. 15, 2022 - 2024).
- A permanent official member of development courses and design for computer science and Internet of things programs – Bachelor's degree, and computer network security – Diploma degree , (Oct. 20, 2022).
- Member of the Accreditation and Quality Assurance Commission for Higher Education Institutions for Engineering Specializations Placement, (2023 – 2024).
- Chair of scientific research committee – Faculty of Information Technology, PHILADELPHIA University, (Oct. 1, 2024 - Sep. 29, 2025).

PH.D. & MASTER THESIS SUPERVISED

- Malek Maged Al-N'awashi, Ph.D. University of Salford Manchester, UK, School of Computing Science & Engineering. **Dissertation Title** "A New Classification Approach Based on Geometrical Model for Human Detection in Images". 01 Oct. 2015 – 01 Oct. 2019.
- Alaa Mohammed Dawood, Master degree, University of Jordan, Jordan, Department of Computer Engineering and Networks. **Thesis Title** "A Concurrent Face Recognition for E-Learning Identification and Authentication", 07 Sep. 2021 – 07 Jan. 2023.

MASTER'S THESIS COMMITTEE MEMBER - EXTERNAL EXAMINER

- Hiba Alsghaier, "Software Fault Prediction Using Optimization Algorithm with Genetic Algorithm". Supervised by Dr. MOHAMMED AKOUR, Computer Information system. YARMOUK University, Jordan. 2018.

- Omar Otoum, "New algorithm for digital image encryption". Supervised by Dr. MAZEN AL-ZYOUD, Computer Information system, AL AL-BEYT University, Jordan. 2018.
- Bara'a Mohammad Hamdoni, "Synchronization of Chaotic Systems with Application to Cryptography". Supervised by Prof. Dr. MOHAMMED AL-JAMAL, Mathematics. YARMOUK University, Jordan. 2018.
- Mahmoud Baniata, "Investigating the Ability of Testing Web Applications Based on Traditional Software Testing Techniques", Computer Information system. YARMOUK University, Jordan. 2019.
- Omar Badarneh, "Emotion Analysis of Arabic Tweets as A multi-Label Classification Problem", Computer Information system. Supervised by Prof. Dr. ABEDALKAREEM OMARI. Computer Science. YARMOUK University, Jordan, 2019.
- Haneen Mohammad Al-Zoubi, "Identifying the Best Base Classifier and the Significance of Capturing the Correlations among Labels in Multi-label Classification", Supervised by Dr. MAZEN AL-ZYOUD, Computer Science, AL AL-BEYT University, Jordan. 2022.
- Mohammad AL-Dwaikat, "Voiced Cyber bullying Detection Using Machine Learning", Supervised by Prof. Dr. KHALID M.O. NAHAR, Computer Information system. YARMOUK University, Irbid, Jordan. 2023.
- Nada Jawdat Aljarrah, "Detection of Deep Fake Faces, Their Types & Manipulation Techniques Used Based on LBP & HOG Features with Deep Learning and Generative AI Model (GAN)", Supervised by Prof. Dr. KHALID M.O. NAHAR , Computer Information system. YARMOUK University, Jordan. 2024.
- Ammar A. Makableh, "Enhanced IoT Security using Auto-encoders and Deep Forest Trees", Supervised by Prof. Dr. SAWSAN SHATNAWI, Computer Information system. YARMOUK University, Jordan. 2024.
- Jalal Mohammad Al-Manaseer, "Ensemble Machine Learning Framework for Text Classification in Complex Social Contexts". Supervised by Prof. Dr. SAWSAN SHATTNAWI and Co-Supervisor Prof. Dr. KHALID M.O. NAHAR, Computer Science. YARMOUK University, Jordan. 2025.
- Ahmad Mohammad Ali Zoubi, "NLP text classification for candidate selection in recruitment", Supervised by Prof. Dr. Mohammad Al-Batah, Computer Science. JADARA University, Jordan. 2025.

GRANTS AND FUNDED
PROJECTS

1.	Project Title	:	Vocational Training in Closed-Circuit Television (CCTV) Systems
	Funding Source	:	E-TVET Fund, Ministry of Labor – Jordan
	Funding Period	:	2017 – 2018
	Grant Amount	:	\$ 35,000
	Description	:	Led a project aimed at enhancing vocational and technical skills among young men and women in the field of CCTV installation and maintenance. The initiative focused on increasing employability and reducing unemployment through hands-on training and certification.
2.	Project Title	:	Advanced Training in IP-Based Closed-Circuit Television (CCTV-IP Camera) Systems
	Funding Source	:	E-TVET Fund, Ministry of Labor – Jordan
	Funding Period	:	2018 – 2019
	Grant Amount	:	\$ 41,000
	Description	:	Secured funding to implement advanced level vocational training in IP-based CCTV technologies. The project targeted youth employment by providing industry-relevant skills in modern surveillance systems, contributing to workforce development and economic inclusion.

CONSULTATION EXPERIENCE

- Developed an online system for Yarmouk Water Company, Jordan, 2017-2018, to streamline internal operations and improve service delivery.
- Department of the National Library – JORDAN - Ministry of Culture – Online Archives System Development, 2018-2019.
- Greater Amman Municipality – JORDAN - Job Development Center – Stuff Gate Online System, 2019.
- Ministry of Higher Education and Scientific Research – JORDAN - E- Learning – Concepts and Methods, 2021-2021.
- Designed and developed an online E-Exam system for JADARA University, Jordan, 2020 – 2021, to facilitate remote assessments.

PUBLICATIONS

A. Refereed, Specialized,
International, and
Indexed Journals

1. **Obaida M. Al-Hazaimeh**, "Increase the Security Level for Real-Time Application Using New Key Management Solution", *International Journal of Computer Science Issues (IJCSI)*. Vol.9, Issue 3, May 2012 [Emerging Sources Citation Index]. Article link : <https://www.oalib.com/research/2645487>
2. **Obaida M. Al-Hazaimeh**, "Hiding Data in Images Using New Random Technique", *International Journal of Computer Science Issues (IJCSI)*. Vol.9, Issue 4, July, 2012. Article link : <http://www.ijcsi.org/papers/IJCSI-9-4-2-49-53.pdf>

3. Isra Al-Qasrawi, and **Obaida M. Al-Hazaimah**, "A Pair-Wise Key Establishment Scheme for Ad Hoc Networks", *International Journal of Computer Networks & Communications (IJCNC)*. Vol.5, No.2, March 2013. [Citation index Scopus-Q4]. Article link :<https://airccse.org/journal/cnc/5213cnc10.pdf>
4. **Obaida M. Al-Hazaimah**, "A New Approach for Complex Encrypting and Decrypting Data", *International Journal of Computer Networks & Communications (IJCNC)*. Vol.5, No.2, March 2013 [Citation index Scopus-Q4]. Article link :https://www.idc-online.com/technical_references/pdfs/data_communications/A%20NEW%20APPROACH.pdf
5. **Obaida M. Al-Hazaimah**, "Design of a New Block Cipher Algorithm", *International Institute for Science Technology and Education (IISTE)*, Vol.3, No.8, 2013. Article link :<https://core.ac.uk/download/pdf/234686526.pdf>
6. Malek Maged Al-N'awashi, **Obaida M. Al-Hazaimah**. "A Guideline to Video Codec's Delay", *International Institute for Science Technology and Education (IISTE)*. Vol.3, No.8, 2013. [Emerging Sources Citation Index]. Article link :<https://www.iiste.org/Journals/index.php/NCS/article/download/11072/11373>
7. **Obaida M. Al-Hazaimah**, Saleh A. Alomari, J. Alsakran, N. Alhindawi. "Across correlation - new based technique for speaker recognition". *International Journal of Academic Research (IJACR) Part A*; Vol.6, No.3, 2014. [Citation index Scopus-Q3]. Article link :https://www.researchgate.net/publication/271024973_Across_correlation_-_new_based_technique_for_speaker_recognition
8. Ma'moun A. Al-smadi, **Obaida M. Al-Hazaimah** and Nouh Alhindawi. "A Dual Curvature Shell Phased Array Simulation for Delivery of High Intensity Focused Ultrasound". *Computer and Information Science, Canadian Center of Science and Education (ISSN 1913-8989)*. Vol. 7, No. 3; 2014 [Citation index Scopus-Q4]. Article link :<https://ccsenet.org/journal/index.php/cis/article/view/37143>
9. **Obaida M. Al-Hazaimah**, Nouh Alhindawi, Sofyan M. A. Hayajneh, and Ammar Al-Momani. "A new HENON chaotic map - based algorithm for image encryption". *MAGNT Research Report (ISSN. 1444-8939)*. Vol. 2 No.4, pp: 261- 266, July 2014 [Citation index Scopus-Q2]. Article link :https://www.researchgate.net/publication/281823614_HANON_Chaotic_Map_-_Based_New_Digital_Image_Encryption_Algorithm
10. **Obaida M. Al-Hazaimah**, "A Novel Encryption Scheme for Digital Image - Based on One Dimensional Logistic Map". *Computer and Information Science, Canadian Center of Science and Education (ISSN 1913-8989)*. Vol. 7, No. 4; 2014. [Citation index Scopus-Q4]. Article link :<https://www.ccsenet.org/journal/index.php/cis/article/view/39431>
11. Ammar Almomani, Atef Obeidat, Karim Alsaedi, **Obaida M. Al-hazaimah**, Mohammed Al-Betar, "Spam Email Filtering using ECOS algorithms", *Indian Society for Education and Environment, Indian Journal of Science and Technology*, Vol. 8, 2015 [Citation index Scopus-Q2]. Article link : <https://indjst.org/articles/spam-e-mail-filtering-using-ecos-algorithms>
12. **Obaida M. Al-Hazaimah**, "Combining Audio Samples and Image Frames for Enhancing Video Security", *Indian Society for Education and Environment, Indian Journal of Science and Technology*, Vol. 8, 2015. [Citation index Scopus-Q2]. Article link : <https://indjst.org/articles/combining-audio-samples-and-image-frames-for-enhancing-video-security>
13. Nouh Alhindawi, **Obaida M. Al-Hazaimah**, Rami Malkawi, Jamal Alsakran, "A Topic Modeling Based Solution for Confirming Software Documentation Quality", *International Journal of Advanced Computer Science and Applications (IJACSA)*. Vol. 7, No. 2, 2016

- [Citation index Scopus-Q3]. Article link :
<https://thesai.org/Publications/ViewPaper?Volume=7&Issue=2&Code=IJACSA&SerialNo=27>
14. Sofyan M. A. Hayajneh, Abdul Rahman Rashad, Omar A. Saraereh, **Obaida M. Al-hazaimeh**, "A Computerized High Quality - Low Computational Cost Technique for Principal Object Segmentation Applied in Solar and Medical Imaging", *Computer and Information Science, Canadian Center of Science and Education* (ISSN 1913-8989). Vol. 9, No. 2; 2016. [Citation index Scopus-Q4]. Article link :
<https://ccsenet.org/journal/index.php/cis/article/view/39430>
 15. Malik Al-Nawashi, **Obaida M. Al-Hazaimeh** and Mohamad Saraee, "A Novel Framework For Intelligent Surveillance System Based On Abnormal Human Activity Detection In Academic Environments", *Neural Computing and Applications* (DOI: 10.1007/s00521-016-2363-z) Vol. 27 , No. 4 ; 2016 [Social mentions by University of SALFORD MANCHESTER (U.K)], [Citation index ISI impact factor 1.569]. Article link :
<https://link.springer.com/article/10.1007/s00521-016-2363-z>
 16. **Obaida M. Al-Hazaimeh**, Mohammad F Al-Jama, Nouh Alhindawi and Abedal kareem Omari, "Image Encryption Algorithm Based On-Lorenz Chaotic Map With Dynamic Secret Keys" ,*Neural Computing and Applications* (DOI: 10.1007/s00521-017-3195-1) Vol. 13 , No. 3 ; 2017 [Citation index ISI impact factor 1.569]. Article link :
<https://link.springer.com/article/10.1007/s00521-017-3195-1>
 17. Nouh Alhindawi, Ziad Saraereh, Omar Meqdadi, **Obaida M. Al-Hazaimeh**, Mohammad Subhi Al-Batah, "Revising Program's Internal Documentation for Developers Sustaining", *Journal of Theoretical and Applied Information Technology*. Vol. 95, No. 18; 2017 [Citation index ISI impact factor, Scopus-Q3]. Article link :
<http://www.jatit.org/volumes/Vol95No18/28Vol95No18.pdf>
 18. Nasr Gharaibeh, **Obaida M. Al-Hazaimeh**, Al-Naami, B. and Nahar, K.M.O., "An effective image processing method for detection of diabetic retinopathy diseases from retinal fundus images", *Int. J. Signal and Imaging Systems Engineering*, Vol. 11, No. 4, pp.206–216, 2018 [Citation index ISI impact factor, Scopus-Q3]. Article link :
<https://www.inderscience.com/info/inarticle.php?artid=93825>
 19. Khalid Nahar, Nouh Alhindawi, **Obaida Al-hazaimeh**, Ra'ed M. Alkhatib and Abdallah M. Al-akhras, "NLP and IR Based Solution For Confirming Classification of Research Papers", *Journal of Theoretical and Applied Information Technology*, Vol. 96, No. 16, pp.5269-5279; 2018 [Citation index Scopus-Q3]. Article link :
<http://www.jatit.org/volumes/Vol96No16/7Vol96No16.pdf>
 20. **Obaida M. Al-Hazaimeh**, Malik Al-Nawashi and Mohamad Saraee, "Geometrical-based approach for robust human image detection", *Multimedia Tools and Applications*, Vol. 25, No.1; 2018 [Citation index ISI impact factor 1.569]. Article link :
<https://link.springer.com/article/10.1007/s11042-018-6401-y>
 21. Nedat Tahat, A. K. Alomari, Ajab Al-Freedi, **Obaida M. Al-Hazaimeh** and Mohammad F. Al-Jamal, "An Efficient Identity-Based Cryptographic Model for Chebyhev Chaotic Map and Integer Factoring Based Cryptosystem", *Journal of Applied Security Research*, Vol. 14 , No. 3 ; pp: 257-269, 2019. [Citation index ISI impact factor, Scopus-Q2]. Article link :<https://www.tandfonline.com/doi/abs/10.1080/19361610.2019.1621513>
 22. Mohammad Al-Batah, Nouh Alhindawi, Saleh Oqeili, **Obaida M. Al-Hazaimeh**, "Source Code Explorer System to Enhance the Software Maintainability and Scalability".*International journal of education and information technologies*, Vol. 13, 2019. [Citation index Scopus-Q3]. Article link:
https://www.academia.edu/68628231/Source_Code_Explorer_System_to_Enhance_the_Software_Maintainability_and_Scalability

23. Nedal Tahat, Ashraf A. Tahat, Maysam Abu-Dalu, Ramzi B. Albadarneh, Alaa E. Abdallah, **Obaida M. Al-Hazaimah**, "A new RSA public key encryption scheme with chaotic maps". *International Journal of Electrical and Computer Engineering (IJECE)*, Vol. 10, No. 2, pp. 1430-1437, April 2020. [Citation index ISI impact factor, Scopus-Q2]. Article link : <https://ijece.iaescore.com/index.php/IJECE/article/view/20517>
24. **Obaida M. Al-Hazaimah**, Ma'moun Al-Smadi, "Automated Pedestrian Recognition Based on Deep Convolutional Neural Networks". *International Journal of Machine Learning and Computing*, Vol. 9, No. 5, October 2019 [Citation index Scopus-Q3]. Article link : https://www.researchgate.net/publication/335753320_Automated_Pedestrian_Recognition_Based_on_Deep_Convolutional_Neural_Networks
25. Nedal Tahat, A. K. Alomari, **Obaida M. Al-Hazaimah** and Mohammad F. Al-Jamal, "An efficient self-certified multi-proxy signature scheme based on elliptic curve discrete logarithm problem". *Journal of Discrete Mathematical Sciences & Cryptography*. Vol. 23, No. 4, pp. 935–948, 2020 [Citation index ISI impact factor, Scopus-Q2]. Article link : <https://www.tandfonline.com/doi/abs/10.1080/09720529.2020.1734293>
26. **Obaida M. Al-Hazaimah**, "A new dynamic speech encryption algorithm based on Lorenz chaotic map over Internet Protocol". *International Journal of Electrical and Computer Engineering (IJECE)*, Vol. 10, No. 5, pp. 4828-4834, 2020 [Citation index ISI impact factor, Scopus-Q2]. Article link : <https://ijece.iaescore.com/index.php/IJECE/article/view/22107>
27. Khalid M.O. Nahar, **Obaida M. Al-Hazaimah**, Ashraf A. Abu-Ein and Nasr Gharaibeh, "Phonocardiogram Classification Based on Machine Learning with Multiple Sound Features". *Journal of Computer Science*. Vol. 16, No. 11, pp. 1648-1656. 2020 [Citation index ISI impact factor]. Article link : <https://thescpub.com/abstract/jcssp.2020.1648.1656>
28. **Obaida M. Al-Hazaimah**, "A new speech encryption algorithm based on dual shuffling HÉNON chaotic map ". *International Journal of Electrical and Computer Engineering (IJECE)*, Vol. 11, No. 3, pp. 2203-2210, 2021 [Citation index ISI impact factor]. Article link : <https://ijece.iaescore.com/index.php/IJECE/article/view/23283>
29. **Obaida M. Al-Hazaimah**, Mohammad Al- Jamal, Mohammed Bawaneh, and Nouh Alhindawi, "A New Image Encryption Scheme Using Dual Chaotic Map Synchronization". *The International Arab Journal of Information Technology (IAJIT)*, Vol. 18, No. 1, 2021 [Citation index ISI impact factor]. Article link : <https://www.iajit.org/paper/2003>
30. Mohammed J. Bawaneh, Emad F. Al-Shalabi, **Obaida M. Al-Hazaimah**, "A Novel RGB Image Steganography Using Simulated Annealing and LCG via LSB". *International Journal of Computer Science and Network Security (IJCSNS)*. Vol. 21, No. 1, 2021 [Emerging Sources Citation Index]. Article link : http://paper.ijcsns.org/07_book/202101/20210119.pdf
31. **Obaida M. Al-Hazaimah**, Ashraf Abu-Ein, Ma'moun Al-Smadi and Monther H. Al-Bsool, "A Split and Merge Video Cryptosystem Technique Based on Dual Hash Functions and Lorenz System". *International Journal of High Performance Computing and Networking*. Vol. 17, No. 1, pp. 39-46. 2021 [Citation index Scopus-Q4]. Article link : <https://www.inderscience.com/info/inarticle.php?artid=120752>
32. Nasr Gharaibeh, **Obaida M. Al-hazaimah**, Ashraf Abu-Ein, Khalid M.O. Nahar, "A Hybrid SVM NAÏVE-BAYES Classifier for Bright Lesions Recognition in Eye Fundus Images". *International Journal on Electrical Engineering and Informatics*. Vol. 13, No. 3, September 2021 [Citation index Scopus-Q2]. Article link : <https://www.proquest.com/openview/b6eb8e298aebab9226a86a40dbe29268/1?pq-origsite=scholar&cbl=316223>

33. **Obaida M. Al-Hazaimeh**, Ashraf A. Abu-Ein, Khalid M. Nahar, Isra S. Al-Qasrawi "Chaotic elliptic maps for speech encryption ". *Indonesian Journal of Electrical Engineering and Computer Science*. Vol 25, No 2, pp. 1103-1114, February 2022 [Citation index Scopus-Q3]. Article link :<https://ijeecs.iaescore.com/index.php/IJEECS/article/view/26706>
34. **Obaida M. Al-Hazaimeh**, Mohammad Al- Jamal, Abedal kareem Omari, Mohammed J. Bawaneh, Nedat Tahat. "Image Encryption Using Anti-Synchronization and Bogdanov Transformation Map". *International Journal of Computing Science and Mathematics*. Vol. 15, No. 1, pp.43–59. March. 2022 [Citation index Scopus-Q3]. Article link :<https://www.inderscienceonline.com/doi/abs/10.1504/IJCSM.2022.122144>
35. **Obaida M. Al-hazaimeh**, Ashraf A. Abu-Ein, Malik Al-Nawashi, Nasr Gharaibeh," Chaotic based multimedia encryption: A survey for network and internet security". *Bulletin Journal of Electrical Engineering and Informatics*. Vol. 11, No. 4, August 2022. [Citation index Scopus-Q3]. Article link :<https://beei.org/index.php/EEI/article/view/3520>
36. **Obaida M. Al-hazaimeh**, Ashraf A. Abu-Ein, Nedat M. Tahat, Ma'moun A. Al-Smadi, Malek M. Al-Nawashi" Combining Artificial Intelligence and Image Processing for Diagnosing Diabetic Retinopathy in Retinal Fundus Images". *International Journal of Online and Biomedical Engineering (iJOE)*. Vol. 18, No. 13, Oct. 2022. [Citation index Scopus-Q2]. Article link :<https://online-journals.org/index.php/i-joe/article/view/33985>
37. Nedat Tahat, Mohd T. Shatnawi, Safaa Shatnawi, Osama Ababneh, **Obaida M. Al-hazaimeh** "A signature algorithm based on chaotic maps and factoring problems". *Journal of Discrete Mathematical Sciences & Cryptography*. Taylor & Francis. DOI: 10.1080/09720529.2022.210160. 12 Sep. 2022. [Citation index ISI impact factor, Scopus-Q1]. Article link :<https://www.tandfonline.com/doi/abs/10.1080/09720529.2022.2101601>
38. Ashraf A. Abu-Ein, **Obaida M. Al-hazaimeh**, Alaa M. Dawood, Andraws I. Swidan, " Analysis of the current state of deepfake techniques-creation and detection methods", *Indonesian Journal of Electrical Engineering and Computer Science*. Vol. 28, No. 3, December 2022. [Citation index Scopus-Q3]. Article link :<https://ijeecs.iaescore.com/index.php/IJEECS/article/view/29189>
39. Rania Shaqbou'a, Nedat Tahat, O. Y. Ababneh, and **Obaida M. Al-Hazaimeh**," Chaotic Map and Quadratic Residue Problems-Based Hybrid Signature Scheme". *International Journal of Computers and Their Applications*.IJCA, Vol. 29, No. 4, Dec. 2022. [Citation index Scopus-Q4]. Article link :https://www.researchgate.net/publication/368416851_Chaotic_Map_and_Quadratic_Residue_Problems-Based_Hybrid_Signature_Scheme
40. Belal Ayyoub, Ashraf Abu-Ein, Bilal Zahran, Jihad Nader, **Obaida Al-Hazaimeh**, "Enhance Linux Security Server Misconfigurations and hardening Methods". *Information Sciences Letters*. Vol. 12, No. 3, Nov. 2023. [Citation index ISI impact factor - Scopus-Q2]. Article link: :<https://digitalcommons.aaru.edu.jo/cgi/viewcontent.cgi?article=1715&context=isl>
41. Nasr Gharaibeh, Ashraf Abu-Ein, **Obaida M. Al-Hazaimeh** , Khalid M.O. Nahar, Waleed A. Abu-Ain, Malek M. Al-Nawashi, " Swin Transformer-based Segmentation and Multi-Scale Feature Pyramid Fusion Module for Alzheimer's Disease with Machine Learning". *International Journal of Online and Biomedical Engineering (iJOE)*.Vol. 19, No. 04, April. 2023. [Citation index Scopus-Q2]. Article link : <https://online-journals.org/index.php/i-joe/article/view/37677>
42. Nedat Tahat, **Obaida M. Al-hazaimeh**, and Safaa Shatnawi. "A New Authentication Scheme Based on Chaotic Maps and Factoring Problems." *In Mathematics and Computation: IACMC 2022, Zarqa, Jordan, May 11–13, pp. 53-64*. Singapore: Springer

- Nature Singapore, 2023. [Citation index Scopus-Q1]. Article link : https://link.springer.com/chapter/10.1007/978-981-99-0447-1_5
43. **Obaida M. Al-hazaimeh**, Moyawiah A. Al-Shannaq, Mohammed J. Bawaneh and Khalid M.O. Nahar, " Analytical Approach for Data Encryption Standard Algorithm ". *International Journal of Interactive Mobile Technologies (IJIM)*. Vol. 17, No. 14, 2023 [Citation index Scopus-Q2]. Article link : <https://online-journals.org/index.php/i-jim/article/view/38641>
 44. Khalid MO Nahar, **Obaida M Al-Hazaimeh**, Ashraf Abu-Ein, Mohammed Azmi Al-Betar, "Arabic Dialect Identification Using Different Machine Learning Methods". *Journal of Supercomputing Arabian*. [Citation index ISI impact factor] (Accepted).
 45. Mohammed J. Bawaneh, Atef A. Obeidat, **Obaida M. Al-Hazaimeh**, Malek M. Al-Nawashi, & Amaal Rateb Shorman, " An Adaptive Fractal Image Steganography Using Mandelbrot and Linear Congruent Generator". *International Journal of Communication Networks and Information Security (IJCNIS)*. Vol. 15, No. 03, 2023 [Citation index Scopus-Q3]. Article link : <https://www.ijcnis.org/index.php/ijcnis/article/view/6240>
 46. Mohammad Alaroud, Nedat Tahat, Abedal kareem Omari and **Obaida M. Al-Hazaimeh**, "A Novel Chaotic Map Partially Blind Signature Scheme Based on Quadratic Residue Problems". *Journal of Discrete Mathematical Sciences & Cryptography*. Vol. 27, No. 3, 2024 [Citation index Scopus-Q1]. Article link : <https://tarupublications.com/doi/10.47974/JDMSC-1823>
 47. Malek M. Al-Nawashi, **Obaida M Al-Hazaimeh**, Mutaz Kh. Khazaaleh, "A New Approach for Breast Cancer Detection- Based Machine Learning Technique". *Applied Computer Science (ACS)*. Vol. 20, No. 01, 2024 [Citation index Scopus-Q3]. Article link : https://acs.pollub.pl/index.php?option=com_content&view=category&layout=blog&id=100&Itemid=196
 48. Malek M. Al-Nawashi, **Obaida M. Al-hazaimeh**, Isra S. Al-Qasrawi, Ashraf A. Abu-Ein, and Monther Al-Bsool, "Analysis and Evolution of SHA-1 Algorithm - Analytical Technique", *International Journal of Computer Network and communication*. Vol. 16, No. 03, 2024. [Citation index Scopus-Q4]. Article link : <https://airconline.com/ijcnc/V16N3/16324cnc06.pdf>
 49. Ashraf A. Abu-Ein, Waleed A. Abuain , Mohannad Q. Alhafnawi, **Obaida M. Al-Hazaimeh**, " Security Enhanced Dynamic Bandwidth Allocation-Based Reinforcement Learning", *WSEAS TRANSACTIONS on INFORMATION SCIENCE and APPLICATIONS*. Vol. 22, 2025. pp. 21-27. [Citation index Scopus-Q4]. Article link : [https://wseas.com/journals/isa/2025/a065109-002\(2025\).pdf](https://wseas.com/journals/isa/2025/a065109-002(2025).pdf)
 50. **Obaida M. Al-Hazaimeh**, Ma'moun A. Al-Smadi, Tarik abu Ein, Ashraf A. Abu-Ein, " End-To-End Cybersecurity Encryption - Video Algorithm", *WSEAS Transactions on Computer Research*. Vol. 22, 2025. pp. 117 - 123. [Citation index Scopus-Q4]. Article link : [https://wseas.com/journals/cr/2025/a245118-005\(2025\).pdf](https://wseas.com/journals/cr/2025/a245118-005(2025).pdf)
 51. Malek M. Al-Nawashi, **Obaida M. Al-hazaimeh**, Nedat Tahat, Nasr Gharaibeh, Tarik abu Ein and Waleed A. Abuain, "Deep Reinforcement Learning – Based Framework for Enhancing Cybersecurity", *International Journal of Interactive Mobile Technologies (IJIM)*. Vol. 19, No. 3, 2025 pp. 170 - 190 [Citation index Scopus-Q2]. Article link : <https://online-journals.org/index.php/i-jim/article/view/50727>
 52. Mohammed J. Bawaneh, **Obaida M. Al-Hazaimeh**, Malek M. Al-Nawashi, Essam Hanandah, " Enhanced IoT Cybersecurity Through Machine Learning - Based Penetration Testing " , *Applied Computer Science (ACS)*. Vol.21, 2025. pp. 96 – 110. [Citation index Scopus-Q2]. Article link : <https://ph.pollub.pl/index.php/acs/article/view/7397>

53. Mohannad Alhafnawi , Haythem Bany Salameh , Yaser Jararweh, **Obaida M. Al-Hazaimeh**, " Intelligent Dynamic Bandwidth Allocation for Real-Time IoT in Fog Optical Networks", *Simulation Modelling Practice and Theory*. Vol.142, July 2025, 103126. [Citation index Scopus-Q1]. Article link : <https://www.sciencedirect.com/science/article/pii/S1569190X25000619>
54. **Obaida M. Al-Hazaimeh**, Ashraf A. Abu-Ein, Tariq M. Younes," Cybersecurity Foundations: Understanding Computer, Network, and Internet Security", *WSEAS Engineering World*. Vol. 07, 2025. pp. 112-119. [Citation index Scopus-Q4]. Article link : <https://wseas.com/journals/articles.php?id=11063>
55. Essam S. Hanandeh, **Obaida M. Al-Hazaimeh**, Ashraf A. Abu-Ein, Belal M. Bataineh, "Ethical Implications of Artificial Intelligence in Internet of Things: A Comprehensive Review and Framework Development" *IAES International Journal of Artificial Intelligence (IJ-AI)*. [Citation index Scopus-Q1]. **Accepted**

PUBLICATIONS

B. Forthcoming and Online Articles

1. **Obaida M. Al-Hazaimeh**, Ma'moun A. Al-Smadi, "The Logistic Chaotic Map – Based New Encryption Algorithm", *International Journal of Interactive Mobile Technologies (IJIM)*. [Citation index Scopus-Q2].
2. **Obaida M. Al-Hazaimeh**, Ma'moun A. Al-Smadi, " Blockchain-Based Approaches for Enhancing Cybersecurity: A Framework and Future Directions ", *Simulation Modelling Practice and Theory*. [Citation index Scopus-Q1].
3. **Obaida M. Al-Hazaimeh**, Malek M. Al-Nawashi,"Explainable AI in Cybersecurity: Balancing Accuracy and Interpretability in Intrusion Detection Systems", *Simulation Modelling Practice and Theory*. [Citation index Scopus-Q1].
4. **Obaida M. Al-Hazaimeh**, Malek M. Al-Nawashi, "Decentralized Identity Verification Using Blockchain in IoT Ecosystems", *Applied Computer Science (ACS)*. [Citation index Scopus-Q3].

PUBLICATIONS

C. Book – Chapter

- Nedal Tahat, **Obaida M. Al-Hazaimeh**, Safaa Shatnawi, "A New Authentication Scheme Based on Chaotic Maps and Factoring Problems". *Mathematics and Computation – Chapter 5*. ISBN: 978-981-99-0446-4. (Book Subtitle : IACMC 2022, Zarqa, Jordan, May 11–13) Springer Nature. 2023

PUBLICATIONS

D. Refereed, Specialized, International, and Indexed Conferences

1. **Obaida M. Al-Hazaimeh**, Hatim Mohamad Tahir, Zurni B. Omar, and Wan R. Osman, "Improving the Performance of Real-Time VoIP Applications Using New Cryptography Approach", *International Workshop and Conference Putra World Trade Centre (PWTC)*, 2008, KL, Malaysia.

2. **Obaida M. Al-Hazaimah**, Zurni B Omar, Wan R. Sheik Osman, Hatim B Mohamad Tahir, "New Approach For Enhancement A Real-Time Application (VoIP) Security Over the Internet". *International Conference on Information Theory and Engineering (ICITE 2009)*. November 2009, Kota Kinabalu, Malaysia.
3. **Obaida M. Al-Hazaimah**, Noh Alhindawi, Nesreen A. Otoum, "A Novel Video Encryption Algorithm-Based on Speaker Voice as The Public Key". *IEEE International Conference on Control Science and Systems Engineering (CCSSE 2014)*, China. 2014. [Best Presentation Award]. Available at: http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?ConfID=34130.
4. **Obaida M. Al-Hazaimah**, Monther Al-Bsool, Ma'moun Al-Smadi, "Developing A Mobile Application to Simplify The Educational Process Using Android Operating System". *The 1st International Conference in Technical Education*, Al-Balqa applied University-Salt - Jordan, 19 - 20 Dec, 2018.
5. **Obaida M. Al-Hazaimah**, Ma'moun Al-Smadi, "Automated Pedestrian recognition based on Deep Convolution Neural Networks". *The 4th International Conference on Multimedia and Image Processing (ICMIP)*, Kuala Lumpur, Malaysia. January 19-21, 2019. [Best Presentation Award]. Available at: <http://www.icmip.org/icmip2019.html>
6. Nedat Tahat, **Obaida M. Al-hazaimah**, Safaa Shatnawi, "A New Authentication Scheme Based on Chaotic Maps and Factoring Problems". *The 7th International Arab Conference on Mathematics and Computations (IACMC 2022)*. ZARAQA, Jordan. May 11-13, 2022. Available at: <https://iacmc.zu.edu.jo/index.php/iacmc2022/item/337-publications>
7. **Obaida M. Al-Hazaimah**, Ma'moun Al-Smadi, " Vehicle To Vehicle and Vehicle To Ground Communication - Speech Encryption Algorithm". *The 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023)*. University of La Laguna, Tenerife, Canary Islands, Spain. 19 - 21 July 2023. Available at: <https://ieeexplore.ieee.org/abstract/document/10252814>
8. **Obaida M. Al-Hazaimah**, Ma'moun Al-Smadi, "End-to-End Cybersecurity Encryption – Video Algorithm". *The 4th International Conference on Applied Mathematics & Computer Science (ICAMCS 2024)*. Venice, Italy, September 28-30, 2024. Available at: <https://ieeexplore.ieee.org/xpl/conhome/10438514/proceeding>
9. Ashraf A. Abu-Ein, Waleed Abuain, **Obaida M. Al-Hazaimah**, " Security Enhanced Dynamic Bandwidth Allocation – Based Reinforcement Learning" *The 4th International Conference on Applied Mathematics & Computer Science (ICAMCS 2024)*. Venice, Italy, September 28-30, 2024. Available at: <https://ieeexplore.ieee.org/xpl/conhome/10438514/proceeding>

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- Journal of Communication Networks and Information Security (IJCNIS) (www.ijcnis.org), (2013-2014).
- Journal of American Science, Taylor & Francis  - (ISI impact factor), (www.jofamericanscience.org), (2014).
- International Journal of Advanced Computer Science and Applications (IJACSA).
- IEEE International Conference on Program Comprehension (ICPC, 2016- 2018).
- Chairman: the 4th International Conference on Multimedia and Image Processing (ICMIP), Kuala Lumpur, Malaysia. January 19-21, 2019.
- Neural Computing and Applications  (ISI impact factor 1.569).
- IEEE Access (2019-2022). 
- Applied Soft Computing Journal (ISI impact factor) (2021-2022).  ELSEVIER
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization, Taylor & Francis  - (ISI impact factor) (2020-2022).
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- BMJ Open Ophthalmology (bmjophth) - (ISI impact factor – Scopus – Q1) (2021-2022).  ELSEVIER
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- Journal of Intelligent and Fuzzy Systems - (ISI impact factor - Scopus – Q2) (2021-2022).
- IEEE MultiMedia, (ISI impact factor) (2022). **IEEE Xplore®**
- World Journal of Traditional Chinese Medicine (WJTCM) - (ISI impact factor - Scopus – Q2) (2021-2022).
- DIGITAL HEALTH: SAGE Journals - (ISI impact factor - Scopus – Q2) (2021-2022).
- Optical and Quantum Electronics -  Springer - (ISI impact factor - Scopus – Q2) (2022-2023).
- Journal of Computational Design and Engineering - Oxford University Press - (ISI impact factor - Scopus – Q1) (2023).
- International Journal of Artificial Intelligence (IJ-AI) - Institute of Advanced Engineering and Science (IAES) – (Scopus – Q2) (2023).
- Peer J Computer Science - The open access journal for computer science - (Scopus – Q2) (2023).
- The 4th Liberal Arts International Conference (Hybrid) and the 9th Liberal Arts National Conference (LAIC-2024&LANC-2024) - (Scopus – Q2) – (2024).
- Malaysian Journal of Medicine & Health Sciences (MJMHS) - (Scopus – Q3) – (2024).
- Diabetes, Obesity and Metabolism: Journal of Pharmacology and Therapeutics – (Scopus – Q1) – (2024).
- Journal of PeerJ Computer Science - (ISI impact factor - Scopus – Q2) (2023-2024).
- Journal of connection Science, Taylor & Francis  Taylor & Francis Group - (Scopus – Q2) (2023 - 2024).
- Journal of Electromagnetic Biology and Medicine - Scopus – Q3) – (2024).
- Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Taylor & Francis  Taylor & Francis Group - (Scopus – Q2) (2023 -2024).
- Journal of Computer Science - (Scopus – Q4) (2023 -2025).

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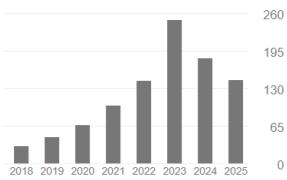
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Deep Reinforcement Learning-Based Framework for Enhancing Cybersecurity MM Al-Nawashi, OM Al-hazaimah, NM Tahat, N Gharaibeh, WA Abu-Ain, ... International Journal of Interactive Mobile Technologies (IJIM) 19 (3), 170-190	4	2025
End-To-End Cybersecurity Encryption-Video Algorithm OM AL-HAZAIMEH, A MA'MOUN, T ABUAIN, AA ABU-EIN WSEAS Transactions on Computer Research 13, 116-123	2	2025
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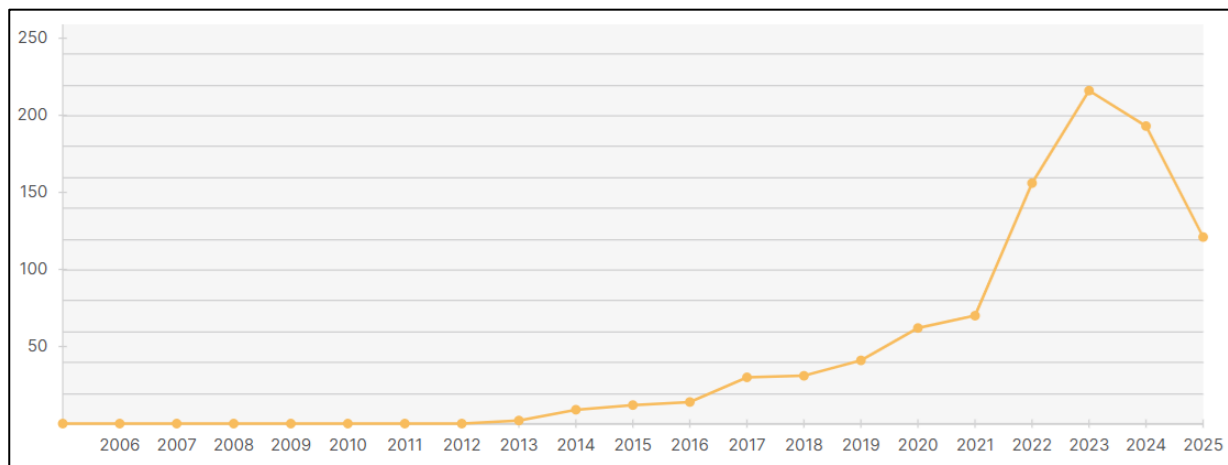
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Alhafnawi, M., Abu-Ein, A., Bany Salameh, H., Jararweh, Y., Al-Hazaimah, O.
Simulation Modelling Practice and Theory, 2025, 142, 103126

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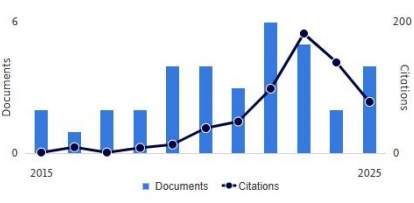
Deep Reinforcement Learning-Based Framework for Enhancing Cybersecurity

Al-Nawashi, M.M., Al-Hazaimah, O.M., Tahat, N.M., ... Abu-Ain, W.A., Abu-Ain, T.
International Journal of Interactive Mobile Technologies, 2025, 19(3), pp. 170–190

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PROFESSIONAL SUMMARY

Distinguished cybersecurity researcher and Full Professor with 15+ years of academic excellence in network security, cryptography, and artificial intelligence. Authored 53+ peer-reviewed publications in top-tier journals (IEEE, Springer, and Elsevier) with significant impact in cybersecurity applications.

Key Achievements:

- Led \$76,000 in funded research projects for vocational cybersecurity training
- Supervised 12+ graduate thesis projects to completion - Served on 25+ editorial boards of international journals
- Recognized with multiple "Best Presentation Awards" at international conferences
- Expertise spans cryptographic algorithms, AI-driven security systems, and IoT security

Currently advancing the integration of artificial intelligence and cybersecurity through innovative cryptographic protocols and intelligent security architectures.

REFERENCES

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Note: For additional information or supporting documents, please feel free to contact me.

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