

Irbid - Jordan

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Scholar: <https://scholar.google.com/citations?user=sfkazNUAAAJ&hl=en>

Yazan . A . AL - Khassawneh 04-18-1982

Profile

Computer Scientist with PhD degree in Computer Science, specialization in Artificial Intelligence / Data Mining and Big Data. My research interest includes but not limited to Data mining & Knowledge Discovery, Text Mining, Big Data, Information Retrieval & Extraction, Artificial Intelligence, Data Science and Graph Theory.

Research interests

- Artificial Intelligence.
- Data Science.
- Big Data.
- Data mining & Knowledge Discovery.
- Text Mining.
- Information Retrieval & Extraction.
- Graph Theory.

Education

- 2017 UTM – Malaysia (**World Rank # 203 QS, 2023**)
- PhD degree in Computer Science (Faculty of Computing)
Specialization: **Artificial Intelligence / Data Mining & Big Data**
Thesis Title: Sub-Graph Approach Based on Hybrid and Semantic Similarity Measurements for Single Document Extractive Summarization.
Supervisor: Prof. Dr. Naomie Salim.
- 2011 UKM – Malaysia (**World Rank # 129 QS, 2023**)
- Master degree in Computer Science (Faculty of Information Science and Technology, FTSM)
Specialization: **Data Mining (Association Rules Mining / Graph Mining)**
Thesis Title: Graph based association rules mining using triangle counting approach.
Supervisor: Prof. Dr. Azuraliza Abu Bakar.

- 2004 Yarmouk University – Irbid, Jordan
- Bachelor degree in Computer Science (Faculty of Information Technology and Computer Science).

- **Zarqa Private University (Zarqa – Jordan)**

Assistant Professor (Data Science and Artificial Intelligence Department)
from December, 16, 2019 – now.

Assistant Professor (Computer Science Department) from October, 30,
2017 – December, 15, 2019.

- **University Technology Malaysia (UTM)**

Teaching Assistant from September 2013 – June 2014

Experience

- **Tiberias Cultural Center (Irbid – Jordan)**

ICDL trainer from 2005 to 2008

- **Ibn Taymeah Primary School**

Science and Computer Science teacher from February 2006 to
June 2006.

- **Hamad Al-Farhan Secondary School**

Computer Science Teacher from February 2009 till June 2009.

Teaching Courses

1. Data Mining and Warehousing
2. Research Methodology and Ethics
3. E-Business
4. Information Retrieval
5. System Analysis
6. Computer Information System
7. Digital Logic Design
8. Computer Organization and Architecture
9. Introduction to Artificial Intelligence
10. Digital Image Processing
11. Artificial Intelligence Programming (Python Programming)
12. Computer and Internet Applications
13. Cognitive Science
14. Fuzzy Logic
15. Database and Oracle
16. Object Oriented Programming (JAVA)

Data Mining and Optimization DMO (FTSM – UKM – Malaysia)

Research Group

Soft Computing Research Group SCRG, (FC – UTM - Malaysia)

Workshops

1. Arduino Workshop. Zarqa University, Jordan, 15 February – 10 March 2022.

2. International Workshop on Big Data Analytics 2015 'Multi Strategy Learning Analytics for Big Data'. University Technology Malaysia, Kuala Lumpur, 17 – 18 August 2015.
3. Big Data Analytic Talk using OSI Platform. University Technology Malaysia, Johor Bahru, 10 June 2015.
4. Three Minutes Thesis (3MT) Competition 2015. University Technology Malaysia, Johor Bahru, 25 February 2015. (The result was 4th out of 13 participants).
5. Introduction to NeuraBASE Toolbox. Neuramatix Training Centre. Mid Vally City, Kuala Lumpur, Malaysia, 26 September 2014.
6. Soft Computing Seminar (SOCOS 2014). University Technology Malaysia, Johor Bahru, 25 – 25 June 2014.
7. Proposal Defense and VIVA Voce. University Technology Malaysia, Johor Bahru, 5 March 2014.
8. TURN-IT-IN. University Technology Malaysia, Johor Bahru, 27 February 2014.
9. 9th Postgraduate Annual Research Seminar (PARS). University Technology Malaysia, Johor Bahru. 24 – 26 September 2013.
10. Soft Computing Seminar (SOCOS 2013). Glory Beach Resort, Port Dickson, Malaysia, 28 – 30 May 2013.
11. 8th Postgraduate Annual Research Seminar (PARS). University Technology Malaysia, Johor Bahru, 27 – 29 November 2012.

Academic Activities

1. **Visiting Professor** through **ERASMUS +** program to RUSE University, Bulgaria 5 -13 May, 2022.
2. Keynote speaker at the twelfth virtual scientific Webinar organized by IEEE Yemen Subsection. In cooperation with college of Engineering and information technology Al-Arab University, Mukalla, Yemen. Online workshop under the title of **“The Artificial Intelligence Ethics: Issues and Initiatives (AIEII)”**. 25 – December – 2022.
3. Keynote speaker at the fourth virtual scientific Webinar organized by IEEE Yemen Subsection. In cooperation with college of Engineering and information technology -AlArab University, Mukalla, Yemen. Online workshop under the title of **“Artificial Intelligence: The Industrial Revolution and Digital Transformation”**. 29 – September – 2020.

4. Keynote speaker at Hadramout University collaborating with Academic Development Center and Quality Assurance. Online workshop under the title of “**Tips and Guidelines to write a good research paper**”. 23 – September – 2020.
5. Keynote speaker at Hadramout University collaborating with Academic Development Center and Quality Assurance. Online workshop under the title of “**Scientific Research: Methods, Tools, and Ethics**”. 17 – October – 2020.
6. Member of the Student Activities and Community Service Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2021-2022.
7. Chairman of the Academic Activities Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2020-2021.
8. College council member – Representative of the Department of Artificial Intelligence. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2020- 2021.
9. College council member – Representative of the Department of Artificial Intelligence. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2021- 2022.
10. Chairman of the Academic Activities Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2019-2020.
11. Member of the Students Activities Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2020-2021.
12. Member of the Students Activities Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2019-2020.
13. Member of the Academic Activities Committee. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2018-2019.
14. Vice chairman of the Employment and Scientific day event. Faculty of Information Technology, Zarqa University, Zarqa, Jordan, 2019-2020.

15. General Secretary of Postgraduate Student Society (PGSS).
Faculty of Computing, University Technology Malaysia, Johor Bahru, 2012 – 2013.
16. General Secretary of Postgraduate Student Society (PGSS).
Faculty of Computing, University Technology Malaysia, Johor Bahru, 2013 – 2014.
17. Chairman in the 9th Postgraduate Annual Research Seminar (PARS). University Technology Malaysia, Johor Bahru. 24 – 26 September 2013.
18. Committee Member in the Three Minute Thesis (3MT) Competition. University Technology Malaysia, Johor Bahru, 19 March 2014.

Peer Review Activities

Editorial Activities

- Reviewer in PLOS ONE Journal, since 2017. (Q1, Journal)
- Reviewer in IRICT (International Conference of Reliable Information and Communication Technology).
- Reviewer in ACIT (International Arab Conference on Information Technology).
- Reviewer in IAJIT Journal (The International Arab Journal of Information Technology).

October 2003 Yarmouk University Irbid, Jordan

Certified for CCNA 1 Networking basics

Attended Training Courses

Learned most of the Networking basics, such as IP addresses, LANs, TCP/IP and OSI Model and much more about networks and internet.

February 2004 Yarmouk University Irbid, Jordan

Certified for CCNA 2 Routers and Routing basics

Got professional experience in routing protocols, and Networks Operating System command set.

April 2004 Yarmouk University Irbid, Jordan

Certified for CCNA 3 Switching Basics and Intermediate Routing

Got professional experience in VLANs, IGRP, and IPX.

July 2004 Yarmouk University Irbid, Jordan

Certified for CCNA 4 WAN Technologies

Got professional experience in WAN Technologies.

Feb 2004 Yarmouk University Irbid, Jordan

Copyrights

1. **Yazan Alaya Al-Khassawneh** and Prof Dr Naomie Salim. Algorithms to Find Triangles in the Graph as a Sub-Graph. Copyright, University Technology Malaysia, 2015.
2. **Yazan Alaya Al-Khassawneh** and Prof Dr Naomie Salim. Representing Text as Graph Algorithms. Copyright, University Technology Malaysia, 2015
3. **Yazan Alaya Al-Khassawneh** and Prof Dr Naomie Salim. Graph – Based Extractive Text Summarization using Reduction Techniques. Copyright, University Technology Malaysia, 2015

Publications

1. Hamadneh, T.; Hioual, A.; Alsayyed, O.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Ouannas, A. The FitzHugh–Nagumo Model Described by Fractional Difference Equations: Stability and Numerical Simulation. *Axioms***2023**, *1*,0. <https://doi.org/> **(Accepted for publication). (SCOPUS Q1, and WOS Indexed, Impact Factor 2).**
2. Hamadneh, T.; Hioual, A.; Alsayyed, O.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Ouannas, A. Finite Time Stability Results for Neural Networks Described by Variable-Order Fractional Difference Equations. *Fractal Fract.* 2022, *1*, 0. <https://doi.org/>. **(Accepted for publication). (SCOPUS Q1, and WOS Indexed, Impact Factor 5.4).**
3. Hamadneh, T.; Chebana, Z.; Abu Falahah, I.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Oussaeif, T.-E.; Ouannas, A.; Abbes, A. On Finite-Time Blow-Up Problem for Nonlinear Fractional Reaction Diffusion Equation: Analytical Results and Numerical Simulations. *Fractal Fract.* 2023, *7*, 589. <https://doi.org/10.3390/fractalfract7080589>. **(SCOPUS Q1, and WOS Indexed, Impact Factor 5.4).**
4. Hamadneh, T.; Hioual, A.; Alsayyed, O.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Ouannas, A. Local Stability, Global Stability, and Simulations in Fractional Discrete Glycolysis Reaction–Diffusion Model. *Fractal Fract.* 2023, *7*, 587. <https://doi.org/10.3390/fractalfract7080587>. **(SCOPUS Q1, and WOS Indexed, Impact Factor 5.4).**

5. Abu Falahah, I.; Hioual, A.; Al-Qadri, M.O.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Hamadneh, T.; Ouannas, A. Synchronization of Fractional Partial Difference Equations via Linear Methods. *Axioms* 2023, 12, 728. <https://doi.org/10.3390/axioms12080728>. (**SCOPUS Q1, and WOS Indexed, Impact Factor 2**).
6. Hamadneh, T.; Abbes, A.; Abu Falahah, I.; **AL-Khassawneh, Y.A.**; Heilat, A.S.; Al-Husban, A.; Ouannas, A. Complexity and Chaos Analysis for Two-Dimensional Discrete-Time Predator–Prey Leslie–Gower Model with Fractional Orders. *Axioms* 2023, 12, 561. <https://doi.org/10.3390/axioms12060561>. (**SCOPUS Q1, and WOS Indexed, Impact Factor 2**).
7. Hamadneh, T.; Abu Falahah, I.; **AL-Khassawneh, Y.A.**; Al-Husban, A.; Wanas, A.K.; Bulboacă, T. Initial Coefficients Upper Bounds for Certain Subclasses of Bi- Prestarlike Functions. *Axioms* 2023, 12, 453. <https://doi.org/10.3390/axioms12050453>. (**SCOPUS Q1, and WOS Indexed, Impact Factor 2**).
8. **AL-Khassawneh, Y.A.**; Hanandeh, E.S. Extractive Arabic Text Summarization-Graph-Based Approach. *Electronics* 2023, 12, 437. <https://doi.org/10.3390/electronics12020437>. (**SCOPUS Q2, and WOS Indexed, Impact Factor 2.9**).
9. **Al-Khassawneh, Yazan**. "A Review of Artificial Intelligence in Security and Privacy: Research Advances, Applications, Opportunities, and Challenges." *Indonesian Journal of Science and Technology* [Online], 8.1 (2023): 79-96. Web. 16 Jan. 2023. (**SCOPUS Q1, Indexed**).
10. **Yazan Alaya AL-Khassawneh**. (2020). The use of Semantic Role Labelling with Triangle-Graph Based Text Summarization. *International Journal of Emerging Trends in Engineering Research*, 8(4), 1162-1169. (**SCOPUS Indexed**).
11. **AL-Khassawneh, Y. A.**, Salim, N., & Jarrah, M. (2017). Improving Triangle-Graph Based Text Summarization using Hybrid Similarity Function. *Indian Journal of Science and Technology*, 10(8). (**WOS, ISI Indexed**).
12. **AL-Khassawneh, Y. A.**, Salim, N., & Obasae, A. I. (2016). Sentence Similarity Techniques for Automatic Text

Summarization. *Journal of Soft Computing and Decision Support Systems*, 3(3), 35-41.

13. **Y. A. Al-Khassawneh**, "An investigation of the Intrusion detection system for the NSL-KDD dataset using machine-learning algorithms," 2023 IEEE International Conference on Electro Information Technology (eIT), Romeoville, IL, USA, 2023, pp. 518-523, doi: 10.1109/eIT57321.2023.10187360.
14. **AL-Khassawneh, Y.A.**, Hanandeh, E.S., Almatarneh, S. (2023). Extractive Text Summarization Using Syntactic Sub-graph Models. In: Wah, Y.B., Berry, M.W., Mohamed, A., Al-Jumeily, D. (eds) Data Science and Emerging Technologies. DaSET 2022. Lecture Notes on Data Engineering and Communications Technologies, vol 165. Springer, Singapore. https://doi.org/10.1007/978-981-99-0741-0_1
15. Aljaidi, M., Alsarhan, A., Samara, G., **AL-Khassawneh, Y. A.**, Al-Gumaei, Y. A., Aljawawdeh, H., & Alqammaz, A. (2023). A Critical Evaluation of A Recent Cybersecurity Attack on iTunes Software Updater. In *2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence(EICEEI)* [10050464] IEEE. <https://doi.org/10.1109/eiceei56378.2022.10050464>
16. E. S. Hanandeh, A. Abu Awwad and **Y. Khassawneh**, "Classify Arabic Text using Vector Space Models," *2021 22nd International Arab Conference on Information Technology (ACIT)*, 2021, pp. 1-12, doi: 10.1109/ACIT53391.2021.9677134.
17. S. Almatarneh, P. Gamallo, B. ALshargabi, **Y. Al-Khassawneh** and R. Alzubi, "Comparing Traditional Machine Learning Methods for COVID-19 Fake News," *2021 22nd International Arab Conference on Information Technology (ACIT)*, 2021, pp. 1-4, doi: 10.1109/ACIT53391.2021.9677453.
18. **Yazan Alaya AL-Khassawneh**, Naomie Salim, Mutasem Jarrah. "Features Effect On Triangle Graph Approach For Extractive Text Summarization: Hybrid Model" (2016). 2nd International Congress On Technology - Engineering & Science. Kuala Lumpur, Malaysia, 28th -29th July 2016.

19. Obasa, A. I., Salim, N., & **Al-Khassawneh, Y. A.** (2014). A Survey Of Challenges And Resolutions Of Mining Question-Answer Pairs From Internet Forum. Jurnal Teknologi 71(5):103-109. (**SCOPUS indexed**)
20. Obasa, A. I., Salim, N., & **Al-Khassawneh, Y. A.** Mining Of Answers From Web Forum: Lexical Versus Non-lexical Approaches. Academic Journal of Science. 3(3) pp 243–251, 2014.
21. **Yazan A. Al-Khassawneh**, Naomie Salim, Isiaki A. Obasa, “Graph-based Extractive Text Summarization Based on Triangle Counting Approach” (2014). The International Conference for Academic Disciplines in Rome: 28th – 31thOctober 2014.
22. **Yazan A. Al-Khassawneh**, Naomie Salim, Isiaka A. Obasa (2014). “Extractive Text Summarization Using Graph Triangle Counting Approach: Proposed Method.” 1st International Conference of Trends in Information and Communication Technologies: Universiti Teknologi Malaysia :12th - 14thSeptember 2014
23. Isiaka A. Obasa, Naomie Salim and **Yazan Al-Khassaweh** “Mining Question – Answer Pairs from Web Forum : A Survey of Challenges and Resolution” (2014). 5th Annual Conference International Graduate Conference on Engineering, Science and Humanities 2014: Universiti Teknologi Malaysia: 19th– 21th August 2014.
24. Isiaka A. Obasa, Naomie Salim and **Yazan A. Al-Khassaweh** “Mining of Answer from web forum: lexical versus non-lexical approaches” (2014). The International Journal Arts and Sciences’ (IJAS) International Conference for Academic Disciplines in Rome :28th – 31th October 2014.
25. **Yazan Al-khassawneh** and Naomie Salim. (2012). On the Use of Data Mining Techniques in Vehicular ad Hoc Network. The International Conference on Advanced Machine Learning Technologies and Applications (AMLT12), the Cairo University, Cairo, Egypt during Dec. 8-10, 2012. (**Indexed by IE & SCOPUS**).

26. **Al-Khassawneh. Y.A.J**, Bakar, A.A, Zainudin, S. "Triangle Counting Approach for graph-based Association Rules Mining", Fuzzy Systems and Knowledge Discovery (FSKD), 2012 9th International Conference on 29-31 May 2012, pp, 661-665, Sichuan, China.

Supervision

1. Supervisor for one team in SUMO ROBOTS Competition held in AlHussein Technical University, Amman, Jordan 27-28 May, 2022.
2. Supervisor for one team in SUMO ROBOTS Competition held in AlHussein Technical University, Amman, Jordan 14-15 July, 2023.

Others

3. Supervised many groups of students in their graduation projects in Bachelor degree in different domains, 2017-2022.
1. Member of the committee for preparing the National Charter of Ethics for Artificial Intelligence / Ministry of Digital Economy and Entrepreneurship – Jordan, 2021.
2. Founding member of the Artificial Intelligence and Entrepreneurship Association / Jordan, 2021.

References

Upon request.