Dr. Ahmad Mohammad Saleh Khasawneh

Personal Information:

Date of birth : 20th August 1987
Nationality : Jordan
Gender : Male
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Objectives

- To perfect a career and make a positive contribution to the success and growth of a dynamic organization/institution that recognizes and encourages the highest level of professionalism, competence, intelligence, and innovative ideas.
- To serve as a team member in academic institutions that creates wider opportunities for knowledge contributions.
- To be a respected member of a creative team, divisions, and corporate departments that orchestrate intuitive campaigns for effectively reinforcing and building a future.

Academic Qualification

Degree	Year of Passing	University
Ph.D. – Computer Science (Computer Networks and Security)	2017	Faculty of Computing, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia
M.Sc. – Information Technology	2012	Faculty of Art and Science, Universiti Utara Malaysia, Sintok, Kedah, Malaysia
B.A. – Computer Science	2010	Faculty of Information Technology and Computer Science, Yarmouk University, Irbid, Jordan
High Secondary School	2006	Dar El-Uloum High School, Irbid, Jordan

Project and Thesis

- ENHANCED ENERGY-EFFICIENT OPPORTUNISTIC PRESSURE-BASED ROUTING ALGORITHMS FOR UNDERWATER WIRELESS SENSOR NETWORKS.
  Ph.D. Thesis submitted to the Faculty of Computing (FC), Universiti Teknologi Malaysia (UTM).
- ANALYSIS OF WEB 2.0 TECHNOLOGIES FOR PROBLEME-BASED AND COLLABORATIVE LEARNING.
  M.Sc. Thesis submitted to the Faculty of Art and Science (CAS), Universiti Utara Malaysia (UUM).

Research Area of Interest

Underwater Wireless Sensor Networks (UWSNs), Internet of Things (IoT), Network Security, Wireless Body Area Networks (WBANs), Wireless Sensor Networks (WSNs), Mobile Ad-hoc Networks (MANETs), Mobile Programming, Optimization techniques, Routing Protocols, Cloud Computing, and Grid Computing.

Work Experience

1/9/2020 - present	Head of Software Engineering, Mobile Computing, and Cybersecurity Departments, Faculty of Computer Science and Informatics, Amman Arab University (AAU), Amman, Jordan.
1/9/2019 – present	Head of Software Engineering and Mobile Computing Departments, Faculty of Computer Science and Informatics, Amman Arab University (AAU), Amman, Jordan.
15/10/2018 – present	Assistant Professor, Department of Mobile Computing, Faculty of Computer Science and Informatics, Amman Arab University (AAU), Amman, Jordan
1/10/2017 – 1/10/2018	Part-Time Assistant Professor, Department of Computer Science, School of Electrical Engineering and Information Technology, German Jordanian University (GJU), Amman, Jordan.
15/8/2013 – 15/5/2017	Research and Teaching Assistant under Associate Professor Dr. Muhammad Shafie Abd Latiff, Faculty of Computing (FC), Universiti Teknologi Malaysia (UTM).
16/3/2010 – 21/9/2010	IT and Network Technical Support, OFFTEC Group, Amman, Jordan.

List of Publications

[1] **(Q1)** Abd Elaziz, M., Dahou, A., Abualigah, L., Yu, L., Alshinwan, M., **Khasawneh, A. M.,** & Lu, S. (2021). Advanced metaheuristic optimization techniques in applications of deep neural networks: a review. ***Neural Computing and Applications***, 1-21 **(SCI Impact Factor = 4.774)**.

[2] **(Q1)** Rani, R., Kumar, S., Kaiwartya, O., **Khasawneh, A. M.,** Lloret, J., Al-Khasawneh, M. A., ... & Alarood, A. A. (2021). Towards Green Computing Oriented Security: A Lightweight Postquantum Signature for IoE. ***Sensors***, 21(5), 1883. **(SCI Impact Factor = 3.275)**

[3] **(Q2)** Abualigah, L., Gandomi, A. H., Elaziz, M. A., Hamad, H. A., Omari, M., Alshinwan, M., & **Khasawneh, A. M.** (2021). Advances in Meta-Heuristic Optimization Algorithms in Big Data Text Clustering. ***Electronics***, 10(2), 101. **(SCI Impact Factor = 2.412).**

[4] **(Q1)** Alshinwan, M., Abualigah, L., Shehab, M., Abd Elaziz, M., **Khasawneh, A. M.,** Alabool, H., & Al Hamad, H. (2021). Dragonfly algorithm: a comprehensive survey of its results, variants, and applications. ***Multimedia Tools and Applications***, 1-38. **(SCI Impact Factor = 2.313)**

[5] Khalifeh, A., Darabkh, K. A., **Khasawneh, A. M**., Alqaisieh, I., Salameh, M., AlAbdala, A., ... & Rajendiran, K. (2021). Wireless Sensor Networks for Smart Cities: Network Design, Implementation and Performance Evaluation. ***Electronics,*** 10(2), 218. **(SCI Impact Factor = 2.412).**

[6] **(Q1) Khasawneh, A. M.,** Kaiwartya, O., Lloret, J., Abuaddous, H. Y., Abualigah, L., Shinwan, M. A., ... & Kharel, R. (2020). Green Communication for Underwater Wireless Sensor Networks: Triangle Metric Based Multi-Layered Routing Protocol. ***Sensors***, *20*(24), 7278. **(SCI Impact Factor = 3.275)**

[7] **(Q1) Khasawneh, A. M.,** Kaiwartya, O., Abualigah, L. M., & Lloret, J. (2020). Green computing in underwater wireless sensor networks pressure centric energy modeling. ***IEEE Systems Journal***, *14*(4), 4735-4745. **(SCI Impact Factor = 3.987)**

[8] **(Q1)** Alshaer, H. N., Otair, M. A., Abualigah, L., Alshinwan, M., & **Khasawneh, A. M.** (2020). Feature selection method using improved CHI Square on Arabic text classifiers: analysis and application. ***Multimedia Tools and Applications***, 1-18. **(SCI Impact Factor = 2.313)**

[9] **(Q1)** Abualigah, L., Alsalibi, B., Shehab, M., Alshinwan, M., **Khasawneh, A. M.,** & Alabool, H. (2020). A parallel hybrid krill herd algorithm for feature selection. ***International Journal of Machine Learning and Cybernetics***, 1-24. **(SCI Impact Factor = 3.753)**

[10] **(Q1)** Shehab, M., Abualigah, L., Al Hamad, H., Alabool, H., Alshinwan, M., & Khasawneh, A. M. (2020). Moth–flame optimization algorithm: variants and applications. ***Neural Computing and Applications***, *32*(14), 9859-9884. **(SCI Impact Factor = 4.774)**

[11] **(Q1)** Al Shinwan, M., Abualigah, L., Le, N. D., Kim, C., & Khasawneh, A. M. (2020). An intelligent long-lived TCP based on real-time traffic regulation. ***Multimedia Tools and Applications***, 1-18. **(SCI Impact Factor = 2.313)**

[12] **(Q3)** Abualigah, L., Gandomi, A. H., Elaziz, M. A., Hussien, A. G., **Khasawneh, A. M.,** Alshinwan, M., & Houssein, E. H. (2020). Nature-Inspired Optimization Algorithms for Text Document Clustering—A Comprehensive Analysis. ***Algorithms***, *13*(12), 345. **(Scopus).**

[13] **(Q3)** Khasawneh, A. M., Abualigah, L., & Al Shinwan, M. (2020, May). Void aware routing protocols in underwater wireless sensor networks: variants and challenges. In ***Journal of Physics: Conference Series*** (Vol. 1550, No. 3, p. 032145). IOP Publishing. **(Scopus).**

[14] **(Q2)** Khalifeh, A., Rajendiran, K., Darabkh, K.A., **Khasawneh, A.M.,** AlMomani, O.; Zinonos, Z. (2019). On the Potential of Fuzzy Logic for Solving the Challenges of Cooperative Multi-Robotic Wireless Sensor Networks. ***Electronics***, *8*, 1513. **(SCI Impact Factor = 2.412).**

[15] **(Q2)** Al-Shalabi, M., Anbar, M., Wan, T. C., & **Khasawneh, A.** (2018). Variants of the Low-Energy Adaptive Clustering Hierarchy Protocol: Survey, Issues and Challenges. ***Electronics****, 7(8),* 136. **(SCI Impact Factor = 2.412).**

[16] **(Q1) Khasawneh, A.,** Latiff, M. S. B. A., Kaiwartya, O., & Chizari, H. (2018). A reliable energy-efficient pressure-based routing protocol for underwater wireless sensor network. ***Wireless Networks****, 24(6),* 2061-2075. **(SCI Impact Factor = 2.659).**

[17] **Khasawneh, A.** & Latiff, M. S. B. A. (2017). RE-PBR: A Reliable Energy-Efficient Pressure-Based Routing Protocol for Underwater Wireless Sensor Networks. **Keynote Speaker**, In *Proceeding of International Multi-Topic Conference on Engineering and Science (IMCES), 02- 03 January 2017, Kuala Lumpur, Malaysia.*

[18] **(Q3) Khasawneh, A.,** Latiff, M. S. B. A., Kaiwartya, O., & Chizari, H. (2016). Next forwarding node selection in underwater wireless sensor networks (UWSNs): Techniques and challenges. ***Information****, 8(1),* 3. **(Scopus).**

[19] **(Q4)** Bamatraf, A., LATIFF, M. S. B. A., COULIBALY, Y., & **KHASAWNEH, A. M.** (2015). Review of quality of service in routing protocols for wireless sensor networks**.** ***Journal of Theoretical & Applied Information Technology****, 74(3)*. **(Scopus).**

[20] **(Q3) Khasawneh, A.,** Latiff, M. S. B. A., Chizari, H., Tariq, M., & Bamatraf, A. (2015). PRESSURE BASED ROUTING PROTOCOL FOR UNDERWATER WIRELESS SENSOR NETWORKS: A SURVEY. ***KSII Transactions on Internet and Information Systems (TIIS)****, 9(2),* 504-527. **(ISI Impact Factor = 0.711).**

List of Keynote Speech and Conferences

Keynote Speech

[1] 2020 international Conference on Intelligent Computing and Human-Computer Interaction (ICHCI2020), December 4-6,2020, Online, China

[2] 2020 International Conference on Communications, Information System and Computer Engineering (CISCE), July 4, 2020, Online, China

[3] 2020 5th International Conference on Electronic Technology and Information Science (ICETIS), February 14-16, 2020, Guangzhou, China

Conferences

[1] Al-Qammaz, A., Darabkh, K. A., Abualigah, L., **Khasawneh, A. M.,** & Zinonos, Z. (2021, January). An AI Based Irrigation and Weather Forecasting System utilizing LoRaWAN and Cloud Computing Technologies. In *2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus)* (pp. 443-448). IEEE.

[2] Al-Khasawneh, M. A., Abu-Ulbeh, W., & **Khasawneh, A. M.** (2020, December). Satellite images encryption Review. In *2020 International Conference on Intelligent Computing and Human-Computer Interaction (ICHCI)* (pp. 121-125). IEEE.

Courses taught/Currently teaching:

Computing fundamentals for business and logistics	Computing fundamentals for engineering	Introduction to C programming	Object oriented using JAVA
Object oriented using C++	Advanced JAVA programming	Mobile Applications using Android Studio	Games programing for mobile using Unity
Database applications	Introduction to software engineering	Website design using HTML, JS, and CSS	Data communication and networks
Information security	Digital logic design	Website application using PHP	Cloud computing
Computer organization and architecture	Advance computer networks	Data structure	Principle of cypher

Programming Skills

Network Simulator 2 (NS-2), Aqua-Sim for UWSNs, TCL and AWK Languages, Android Programming, Games programming using Unity, Java, C# and C++ Object Oriented.

Professional Memberships

2018
- **Reviewer in:**
  - IEEE Internet of Things Journal (ISI Impact Factor = 7.596)
  - Journal of Computer Networks and Communications, Hindawi (Indexed in Web of Science)
  - International Journal of Electronics, Taylor & Francis (ISI Impact Factor = 0.729)
  - Journal of Engineering and Technological Sciences (Scopus Indexed)

2017
- **Reviewer in:**
  - PLOS ONE (ISI Impact Factor = 2.806)
  - IEEE Access (ISI Impact Factor = 3.244)

2016
- **IEEE Member**, ID: 94359616
- **Reviewer in:**
  - International Journal of Communication Systems, Wiley (ISI Impact Factor = 1.099)
  - China Communications, IEEE

2015
- **Reviewer in:**
  - Wireless Networks, Springer (ISI Impact Factor = 1.981)
  - International Journal of Distributed Sensor Networks, Hindawi (ISI Impact Factor = 0.906)

2013
- Pervasive Computing Research Group (PCRG), Faculty of Computing (FC), Universiti Teknologi Malaysia (UTM)

Languages

Arabic	Native Language.
English	Written and spoken (Excellent).

References

[1]	Professor Dr. Sahel Alouneh	Dean of Faculty of School of Electrical Engineering and Information Technology, German Jordanian University (GJU), Amman, Jordan. E-mail: sahel.alouneh@gju.edu.jo
[2]	Professor Dr. Mohammad Otair	Faculty of Computer Science and Informatics, Amman Arab University (AAU), Amman, Jordan E-mail: otair@aau.edu.jo
[3]	Professor Dr. Muhammad Shafie Abd Latiff	Head of Computer Science Department, Faculty of Computing, Universiti Teknologi Malaysia 81310 UTM Skudai, Johor, Malaysia. E-mail: shafie@utm.my
[4]	Professor Dr. Bilal Abul-Huda	Dean of Faculty of Information Technology and Computer Science, Yarmouk University, Irbid, Jordan. Email: abul-huda@yu.edu.jo

I hereby declare that, the above furnished information is true and correct to the best of my knowledge. **Ahmad Khasawneh**