Date:  03/15/2023

## RAMI SALAH EDDIN YOUSIF SIHWAIL

### PERSONAL INFORMATION

Title: Faculty member / Cyber Security Dept.

Academic Rank: Assistant Professor

Date & Place of Birth: 09/09/1977

Nationality: Jordanian

Address: Amman, Jordan

Phone No.:

e-mail: r.sihwail@aau.edu.jo

### ACADEMIC QUALIFICATIONS

| Degree | Major | Duration (From-To) | University | Country |
|--------|-------|--------------------|------------|---------|
| Ph.D. | Computer Science/ Cyber security | 2018-2021 | The National University of Malaysia (UKM) | Malaysia |
| Master | Computer Science/ Distributed Computing | 2000-2002 | University Putra Malaysia (UPM) | Malaysia |
| Bachelor | Computer Science | 1995-1999 | Al Al-Bayt University | Jordan |

## TEACHING EXPERIENCE

| Duration | Rank | Institution | Department/Faculty | Country |
|---|---|---|---|---|
| 2021-Now | Assistant Professor | *Amman Arab University* | Cyber Security | Jordan |
| 2010-2019 | Lecturer | *King Faisal University (KFU)* | Computer Science | Saudi Arabia |
| 2005-2009 | Lecturer | *Emirates College of Technology* | Computer Science | United Arab Emirates |
| 2001-2004 | Teacher | *Saudi School in Kuala Lumpur* | Computer Science | Malaysia |

## OTHER EXPERIENCE

| Duration | Rank | Institution | Department/Faculty | Country |
|---|---|---|---|---|
| 1999-2001 | Application Developer | Global Business Company | IT Dept. | Jordan |

## PUBLICATIONS

### JOURNALS

| Author/s (In Order) | Title | Journal | Vol./No. | Publication Date |
|---|---|---|---|---|

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- Said Solaiman O, Sihwail R, Shehadeh H, Hashim I, Alieyan K. Hybrid Newton–Sperm Swarm Optimization Algorithm for Nonlinear Systems. Mathematics. 11(6):1473. https://doi.org/10.3390/math11061473. (2023)

- Sihwail, R., Solaiman, O. S., & Ariffin, K. A. Z. New robust hybrid Jarratt-Butterfly optimization algorithm for nonlinear models. Journal of King Saud University-Computer and Information Sciences, 34(10), 8207-8220. (2022).

- Sihwail, R., Solaiman, O., Omar, K., Akram, K. & Alswaiti, M. A Hybrid Approach for Solving Systems of Nonlinear Equations Using Harris Hawks Optimization and Newton's Method. IEEE Access 9. 95791-95807. (2021).

- Elgamal, Z. M., Yasin, N. M., Sabri, A. Q. & Sihwail, R. Improved Equilibrium Optimization Algorithm Using Elite Opposition-Based Learning and New Local Search Strategy for Feature Selection in Medical Datasets. Computation 9(6): 68. (2021).

- Sihwail, R., Omar, K. & Ariffin, K. A. Z. An Effective Memory Analysis for Malware Detection and Classification. Computers, Materials & Continua, 67(2): 2301–2320. (2021).

- Sihwail, R., Omar, K., Akram, K. & Mohammed, T. Improved Harris Hawks Optimization Using Elite Opposition-Based Learning and Novel Search Mechanism for Feature Selection. IEEE Access 8: 121127–121145. (2020).

- Sihwail, R., Omar, K., Zainol Ariffin, K. & Al Afghani, S. Malware Detection Approach Based on Artifacts in Memory Image and Dynamic Analysis. Applied Sciences, 9(18): 3680. (2019).

- Sihwail, R., Omar, K., & Ariffin, K. Z. A survey on malware analysis techniques: Static, dynamic, hybrid and memory analysis. International Journal on Advanced Science, Engineering and Information Technology, 8(4-2), 1662. (2018).

## CONFERENCES

| Author/s (In Order) | Title | Conference | Country | Date |
|---|---|---|---|---|

- Manar Mizher, Rami Sihwail, Mohammed Bany Baker, Ahmad Mazhar, Manal Mizher, and Dyala Ibrahim. A Review of Cybersecurity for Internet-of-Things Based Next Generation Healthcare Networks. International Computer Sciences and Informatics Conference (ICSIC-2022). Amman-Jordan. 28-29 June- 2022

- Mohammed Bani Baker, Rami Sihwail and Manar Mizher. Integrating Cyber security Factors with TAM Framework for Implementation in the Jordanian Banks. International Computer Sciences and Informatics Conference (ICSIC-2022). Amman-Jordan. 28-29 June- 2022

- Sihwail, R., Omar, K. & Ariffin, K. A. Z. A survey on malware analysis techniques: Static, dynamic, hybrid and memory analysis. International Conference on Advanced Science, Engineering and Information Technology (ICASEIT 2018). pp. 1662–1671. Sarawak. Malaysia. 1-3 November 2018.

## BOOKS

| Author/s (In Order) | Title | Publisher | Edition | Date |
|---|---|---|---|---|

## MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES

## UNIVERSITY COMMITTEES

- Strategic planning
- Risk management
- Career opportunity enhancement
- International academic accreditation (ABET)

## WORKSHOPS ATTENDED

- *Managing Active Classroom, 2019*
- *Exam taxonomy, 2018*
- *Project-based exams, 2018*
- *Develop student leadership, 2018*
- *Curriculum Development, 2008*
- *Research Methodology, 2008*
- *Syllabus & Exam Taxonomy,* 2008
- *Quality development,* 2007

## WORKSHOPS OFFERED

- *Cyber security awareness, 2019*
- *MS Excell/ Intermediate level, 2015*

## RESEARCH INTERESTS

My research interests are in the fields of cybersecurity and artificial intelligence. My research focuses on malware analysis, intrusion detection systems, ethical hacking, digital forensics, feature extraction, feature selection, optimization, and machine learning in several environments such as cloud, network, and end-user systems.

## LANGUAGES

English: Fluent

Arabic: Native

## OTHER COMMUNITY ACTIVITIES

## AWARDS RECEIVED

## GRADUATE STUDENTS SUPERVISION

Student Name                                    Thesis Title

## REFERENCES

**Prof. Dr. Khairuddin Omar**

**Job title:**        Professor of Computer Science

**Company:**        The National University of Malaysia (UKM)

**Email:**        ko@ukm.edu.my

**Relation:**        Ph.D. supervisor.

**Dr. Mohammed Noor Injadat**

**Job title:**        Senior instructor in software engineering

**Company:**        University of Western Ontario

**Email:**        minjadat@uwo.ca

**Relation:**        Head of computer science unit at Emirates college of technology (former).