Academic Curriculum Vitae
(Ayad H Al-Adhami)

1. Personal Information:

Name: Ayad Hazim Ibrahim

Languages: Arabic / English

Place of Residence: Baghdad/ Iraq

Date of Birth: 1982

Religion: Muslim

Marital status: Married

Specialization: PhD in Computer security

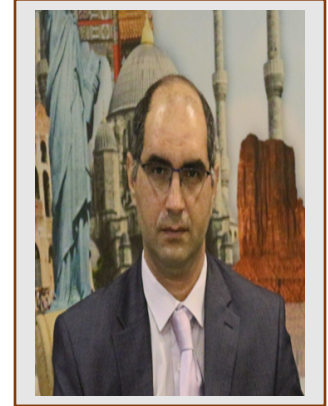**Research Specialization:** Computer Security, RFID security

Current Research Interests: privacy preserving, IoT, Multimedia security, Network security, intrusion detection system, Coding theory , Cybersecurity management, digital forensic analysis.

Affiliation: Head of software branch - Computer Science Department University of Technology- Iraq

Mobile: +9647901688890

E-mail: ayad.h.ibrahim@uotechnology.edu

Websites: https://cs.uotechnology.edu.iq/index.php/s/cv/1100-ayad-hazim

2. Academic Qualifications:

Degree science	University	Department	Date
PhD.	Plymouth University , UK	Computing / Computer Security	2018
M.Sc.	AlNahrain University	Mathematics & computer applications / Data security	2008
B.Sc.	AlNahrain University	Mathematics & computer applications	2003

3. Present Appointment:

Head of Software Branch /Computer Science Department 1st Oct 2024.

Associate Professor since 2022.

4. The last 10 Published Papers

1- Deep neural networks techniques for finger vein authentication

Zainab Jalil Taher, Abeer Tariq Maolood, Ayad Al-Adhami

AIP Conf. Proc. 3229, 040004 (2024)

https://doi.org/10.1063/5.0236941

2- **An improvement for CAST-128 encryption based on magic square and matrix inversion**
Kareem, S.M., Al-Adhami, A., Rahma, A.M.S.
Bulletin of Electrical Engineering and Informatics, 2024, 13(1), pp. 377–387A developed

3- A cryptographic model based on AES cryptosystem
Hussam J Mohammed , Ayad Al-Adhami, Yaseen Yaseen, Leith Abed

AIP Conference Proceedings 2400, 020013 (2022).

https://doi.org/10.1063/5.0112123

4- A secure communication protocol for civil drones
Al-Adhami, A., Hasoun, R.K., Gbashi, E.K., Hassan, S.

Indonesian Journal of Electrical Engineering and Computer Sciencethis link is disabled, 2022, 27(3), pp. 1490–1501

5- <u>Multibiometric System with Runs Bits Permutation for Creating Cryptographic key Generation Technique</u>

    Azeez, R.A., Jamil, A.S., Al-Adhami, A., Hassan, N.F.

    Iraqi Journal of Science, 2023, 64(1), pp. 452–468

6- <u>Digital Speech Files Encryption based on Hénon and Gingerbread Chaotic Maps</u>
    Hassan, N.F., Al-Adhami, A., Mahdi, M.S.

    <u>Iraqi Journal of Science</u>this link is disabled, 2022, 63(2), pp. 830–842

7- <u>Video mosaic watermarking using plasma key</u>
    NF Hassan, AE Ali, TW Aldeen, A Al-Adhami

    Indonesian Journal of Electrical Engineering and Computer Science 22 (2), 11-20

8- <u>Random Number Generator Based on nondeterministic Device and Multi Chaos Theory</u>
    A Farhan, A Al-Adhami

    Al-Qadisiyah Journal Of Pure Science 26 (1), 10-21

9- <u>An Effencient Improvement of RFID Authentication Protocol Using Hash Function ZKP</u>
AH Al-Adhami, M Ambroze, I Stengel, M Tomlinson
2019 2nd Scientific Conference of Computer Sciences (SCCS), 87-92

10- <u>A 256 bit implementation of ECC-RFID based system using</u>
<u>Shamir secret sharing scheme and Keccak hash function</u>
    A Al-Adhami, M Ambroze, I Stenget, M Tomlinson

    Ubiquitous and Future Networks (ICUFN), 2017 Ninth International Conference

Accepted research articles:

11- A new Behavioral tracking system Based on Modified Facial Recognition techniques
The second International conference on Scientific research and innovation 2023
2ICSRI 2023 , AIP Publisher) .

12- A new Ear Recognition System based on moments Analysis. The second International
conference on Scientific research and innovation 2023 2ICSRI 2023 , AIP Publisher)

13- A review of digital Forensics using Artificial Intelligence (The second International
conference on Scientific research and innovation 2023 2ICSRI 2023 , AIP Publisher)

14- Enhancing Biometric Authentication Security using Finger Vein Recognition based on
Machine Learning(The second International conference on Scientific research and
innovation 2023, 2ICSRI 2023 , AIP Publisher)

15- Intrusion detection system for IoT / cloud networks using federated learning and
lightweight cryptography. Baghdad journal of science – Baghdad- University- Iraq.

16- Other published resources

17- Short Biography

Ayad Al-Adhami   is an associated professor in computer security and his role in the computer science department is as the head of the software branch. Previously he rolled as a computer and cybersecurity branch. He earned his Ph.D. degree in computing – Computer security from Plymouth University, Plymouth- United Kingdom, 2018. His M.Sc. Degree was in Mathematics & Computer Applications, and specified in information security, from AlNahrain University Baghdad-Iraq, 2008. The bachelor's degree was earned in 2003 from AlNahrain university department of Mathematics & computer applications. Ayad is a faculty staff member in the computer science department, and he joined the Department of Computer Sciences in 2009 as an academic member teaching different topic. His research interests include Computer security, RFIID security, Cryptography, Network security, Mathematics for computer science, data science & coding theory.

18- Supervision

(3) MSc supervision

19- Discussion thesis of post graduate studies:

Member for (11) MSc viva committee at the computer science department – University Technology

20- Resident scientific:

21- Important Sites:

Google Scholar:
https://scholar.google.com/citations?user=GvmCmJcAAAAJ&hl=en&oi=ao

Scopus:
https://www.scopus.com/authid/detail.uri?authorId=57191608322

Publon:

https://www.webofscience.com/wos/author/record/G-4249-2019

Orcid:
https://orcid.org/0000-0002-0004-2441

22- Activities

- Directory board member of Information Technology Centre University of Technology Iraq since 2023 - present
- Editorial team Journal of Soft Computing and Computer Applications (JSCCA) since 2023- present.
- Editorial and scientific team for International Engineering, Technologies, and Applied Sciences conference (IETAS-2024) university of Technology-Iraq
- Editorial and Scientific Committee of The second International conference on Scientific research and innovation 2023 2ICSRI 2023 , Okland publisher , Ohio, USA.
- English language evaluator for post graduate studies.
- TPC for different conferences.
- SouthWest Grad school residential course 2016, UK.

23- Date Curriculum Vitae Prepared:

2024-11-12