

C.V



DR.\ BASEM MOHAMAD AL-RIFAI.

COMPUTER SYSTEM

PERSONAL

Date of Birth: 15/03/1971
Place of Birth: Amman, Jordan
Nationality: Jordanian & Russian
Marital Status: Married
Address: Amman-Jordan
Tel Mobile: + (962)796468824
E. Mail: b.rifai@jadara.edu.jo drbasemrifai@yahoo.com

EDUCATION

- 1. PhD. In Computer System Engineering,**
Expert System “ Artificial Intelligence” of Computer Information Processing Networks .
“Specialty:-System *Analysis* and Security information management
Tver State Technical University (Russia) 2003.
- 2. Master Degree. In Computer System Engineering,**
Systems Complexes and Networks. Computers Electronic
Tver State Technical University (Russia) 2000.
- 3. Professional Diploma: in Software Engineering Project Management,**
System Analysis, Information Management and Processing
Tver State Technical University (Russia) 1999
- 4. Bachelor: in Computer System Engineering,**
Tver State Technical University (Russia) 1997
- 5. Professional Diploma in Russia Literature.**
Tver University (Russia) 1997

✓ CERTIFICATION and TRAINING

1. Microsoft Certificate of Excellence/Microsoft Certified –(USA).
2. A Microsoft Certified Technology Specialist (MCTS)-(USA)
3. A Microsoft Certified Technology Specialist: Microsoft Windows Share Point Services: Configuration (USA)
4. Cisco Networking Academy Certified /A Certificate of Completion for IT Essentials.
5. Data and network security training course/Arab Federation for Technical Education
6. Cisco Networking Academy® program. / A Certificate of Completion for Network security.
7. Successfully Completed the MCTS: Windows Share point services Configuration training

8. At GOA Center the company is KOENG-SOLUTIONS PVT.LTD (GOA India).
SEP, 2010.
10. Microprocessor and Microcontroller Design for technicians , Al Balqa Applied University
, Amman, 2013
11. Software Design workshop, Al Balqa Applied University, Amman, 2014.
12. Successfully Completed the IT course as part of the Cisco Networking Academy®
program. FEB, 2018

✓ PROFESSIONAL & ACADEMIC EXPERIENCE

9/2023 to Present

Assistant Professor in Computer Sciences Department
Faculty of Information Technology
Jadara University
Irbid Jordan

9/2005 to 9/2023

Assistant Professor in **Computer Sciences** Department
Assistant Professor in Software Engineering Department Assistant Professor
in Computer system Engineering “Department
Assistant Professor in Artificial Intelligence “Department
Prince Abdullah Ben Ghazi
Faculty of Information Technology and communication
Al-Balqa’ Applied University
(Al-Salt, Jordan)

1/2004 to 9/2005

Lecturer in Computer Information System Department
Faculty of Information Technology
Delmon University for science & Technology
(Manama, Bahrain)

9/2003 to 1/2004

Lecturer in Information Technology.
ANDALOS COLLEGE
(Amman, Jordan)

9/1999 to 6/2003

Part time Lecturer in Computer Engineering Department
Faculty of Engineering
Tver State Technical University
(Tver, Russia)

✓ TECHENING AND EXAMINER

(Graduate Level)

1. Software Design and Testing.
2. Networks and Communication.
3. Database System.
4. Operating System.
5. Software Engineering.
6. Algorithms

(Undergraduate Level)

Big Data and Data Analytics

Machine Learning ,
Software Construction & Component.

Secure Software Engineering
Distributed Systems
Discrete Mathematics

Network monitoring and documentation
Information System Management

Data Structure

Networks and Communication.
Wireless Networks Security Systems
Network Security
Database System
Operating System.
Digital Logic
Microprocessor Systems
Computer Architecture

Software Design & Architecture
Enterprise resource planning
Decision Support Systems
Real Time Software Design
Object Oriented Software
Engineering
Software Quality Assurance
Software Engineering & Software
Development
Foundations of Formal Methods
and Software Analysis
Information Technology.
Information System Analysis and
Design.

Internet Applications Development
&
Web Design

Electronic Commerce
Application in Computer
Programming
Object Oriented Programming
(C++, Java. python)

I supervised more than 300 graduated projects for both BSC and Master
Degree graduation projects.

✓ ADMINISTRATIVE WORK

- | | |
|---|------------------|
| 1. Head of Information Technology Department | 9/2006 to 9/2010 |
| 2. Head of Computer Science Department | 9/2006 to 9/2010 |
| 3. Head of Computer Information System Department | 9/2006 to 9/2010 |
| 4. Head of Software Engineering Departments | 9/2006 to 9/2010 |
| 5. Head of Post Graduate Students Department | 9/2006 to 9/2010 |
- Prince Abdullah Ben Ghazi, Faculty of Information Technology
Al-Balqa' Applied University.

Program Manager of Jordan Electronic Academy 1/2007 to 9/2014

Designing study plans for specializations:-

- | | |
|--|--------------|
| 1. Computer Engineering Bachelor programs | 2012 to 2023 |
| 2. Computer science Bachelor programs | 2016 to 2022 |
| 3. Artificial intelligence Bachelor programs | 2018 to 2023 |

Follow up the agreements between the University and other societies.**✓ PUBLICATIONS**

Optimizing 5G Resource Allocation with Reinforcement Learning: A Q-Learning and Deep Q-Network (DQN) Approach," Journal of Advances in Information Technology
<https://ojs.ejournal.net/index.php/jait/dashboard/mySubmissions?workflowSubmissionId=18097> **Q2**

“Enhancing Internet of Things (IoT) Network Security: A Machine Learning-Driven Framework for Real-Time Intrusion Detection and Anomaly Classification “
 Mesopotamian journal of Cybersecurity Vol.5, No.3, pp. 1042–1056 DOI:
<https://doi.org/10.58496/MJCS/2025/056>; ISSN: 2958-6542
<https://mesopotamian.press/journals/index.php/cybersecurity> **Q2**

“Advancing IoMT Security: Machine Learning-Based Detection and Classification of Multi-Protocol Cyberattacks “Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), volume: 16, number: 2 (June), pp. 228-247. DOI: 10.58346/JOWUA.2025.I2.015 June 2025
[2025.I2.015.pdf](https://doi.org/10.58346/JOWUA.2025.I2.015) **Q2**

- 1.” **A Simple Approach to Connecting Pt100 by Utilizing an Electroacoustic Resonance Tube**”, .mdpi/journal/sensors, Sensors **2023**, 23, 2775.
<https://doi.org/10.3390/s23052775> **Q1**
- 2.”Using Moore Dijkstra Algorithm With Multi Agent System To Find Shortest Path Over Network” International Journal of Advanced Computer Science and Applications (IJACSA), Volume 6, Issue 6, June 2015. **Q3**
- 3.”A Novel Wireless and Mobile E-Health Expert System “International Journal of Computer Science (IJCSI), Volume 12, Issue 2, March 2015.
- 4.”Investigating Biogeography –Based Optimizing for Patient Admission Scheduling Problems “Journal of Theoretical Applied Information Technology (JATIT), Volume 70, Issue 3, October 2014. **Q4**
- 5.” An Adaptive Color Night Vision Scheme Tuned Enhanced Particle Swarm Optimization” International Journal of Computer Applications (0975 – 8887) Volume 87 – No.6, February 2014.
6. “An Intelligent Watermarking Approach Based Particle Swarm Optimization in Discrete Wavelet Domain”, International Journal of Computer Science (IJCSI), Vol. 10, Issue 2, No 1, March 2013. ✓
7. "Recognizing Handwriting Indian Numbers using Neural Network", International Journal of Scientific Knowledge (Computing and Information Technology) Volume 1 Issue 2, Oct 2012.
8. "Using New Data Structure to Implement Documents Vectors in Vector Space Model in Information Retrieval System", Journal of Theoretical Applied Information Technology, VOL 19 ISSU 1. (2010). **Q4**
- 9.” Probabilistic Artificial Neural Network For Recognizing the Arabic Hand Written Characters” Journal of Computer Science 2 (12): 879-884, 2006 ISSN 1549-3636 © 2006. Science Publications.

10. "Defining Primitives for Mobile E-Learning" First International Conference on E- Learning and Blended Education as a Strategic Choice for Arab universities "ICELBE 2012. ✓
11. "Synthesis of an Expert System for Analysis of Models and Structures of Computer Network". Journal of Intellectual Control and Information Processing Systems. VOL 32 ISSU 2. (2001). (Publication in Russian language).
12. "Complex Designing of An Expert System for Choice of LAN Structure for Training Student". Materials of the All Russia extra Mural conference. Tver, 2001 (Publication in Russian language).
13. " An Expert System for Analysis of Computer Network" Materials of the all Russia Extra Mural Conference. . Tver2002. (Publicationin Russian language).
14. "Features of Flow Management in Networks with a Virtual Connection". Tver, 2002. (Publication in Russian language).
15. "Decision-making support in processing of Computer Networks". Journal of Information Technologies in Solving Problems of Industry. VOL 5 ISSU 4. (2002). ((Publication in Russian language).
16. "Expert system of Computer Networks synthesis". Materials of International Scientific and Technical Conference. Tver. 2003. (Publication in Russian language).

✓ **PUBLICATIONS UNDER REVIEW AND SUBMISSION (2025).**

1. Behavioral Profiling and Anomaly Detection in EV Charging Systems 2025
2. Benchmarking IoMT Device Security: A Multidimensional Approach Using the CICIoMT2024 Dataset 2025

✓ **CONFERENCES**

1. First International Conference on E-Learning and Blended Education as a Strategic Choice for Arab universities "ICELBE 2012"
2. Networking and Electronic Commerce Research Conference, Italy 2007.
3. Higher Education Reform for Knowledge Economy, Jordan 2006.
4. 2nd Jordanian International Conference on Computer Science and Engineering (JICCSE2006) Al-Balqa Applied University.
5. Electronic government in Bahrain. Manama-Bahrain 2004.
6. New Computer technologies in Education, Industry, Energetic. Aushta-1998
7. Formation and function of information space in market conditions. Penza- 2000.
8. Reform in Russia and Management Problems. Moscow- Russia, 2002.
9. Computer Technologies in Management, Diagnostics and Education. Tver-, 2002.
10. The International Conference on Business Information Technology and Intellectual Economics Salt - Jordan, 26 - 28 Mar, 2019
12. IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology
Conference May 2023 Amman, Jordan

✓ **Professional memberships**

- Member – Microsoft Professional Community (USA).
- Member - Jordan Engineers Association.
- Member - Member -Jordan Computer Society.
- Member - ICT Associations of Jordan.
- Member - Cisco Networking Academy® program.

✓ **COMPUTER SKILLS**

-  **Operating Systems**
 -  Ms-DOS
 -  Windows

- Ⓢ UNIX
- Ⓢ Linux
- Ⓢ Android
- Ⓢ macOS

Security Tools

- Ⓢ Sprinto
- Ⓢ Kali Linux
- Ⓢ Kismac
- Ⓢ Nessus Professional
- Ⓢ Wireshark
- Ⓢ X Ways Forensics

Design Tools

- Ⓢ Structure System Analysis and Design Oracle 8 server & SQL
- Ⓢ UML Case Tools.
- Ⓢ Smart Draw.

Programming Languages

- Ⓢ C++
- Ⓢ Python
- Ⓢ Visual Basic
- Ⓢ Java
- Ⓢ Assembly Language

Web Development

- Ⓢ Web design using (Macromedia Dream weaver & Flash)
- Ⓢ HTML
- Ⓢ Java Script
- Ⓢ Visual Studio
- Ⓢ Developer chrome

Project management

- Ⓢ Microsoft Project
- Ⓢ Monday
- Ⓢ Team center
- Ⓢ ERP System

✓ **LANGUAGES**

- **Arabic** Mother tongue
- **English** Excellent (written & spoken)
- Russian** Excellent (written & spoken)

✓ **Researcher ID**

<https://scholar.google.com/citations?hl=ar&user=k9fq1F0AAAA2>

<https://orcid.org>

[1011-4510-0002-0000](#)

[Researcher ID. rid53405](#)

https://www.researchgate.net/profile/Basem-Alrifai?ev=hdr_xprf

<https://www.scopus.com/authid/detail.uri?authorId=36679807600>

[Web of Science Researcher ID IQV-0672-2023](#)

✓ **References**

1. Dr Khalaf Katatneh Al-Balqa' Applied University dr.khalaf@bau.edu.jo
+962799656066
2. Dr Nijad Al Najdawi Al-Balqa' Applied University n.al-najdawi@bau.edu.jo
+962775054992

