

## CURRICULUM VITAE



**DR. BASEM MOHAMAD AL-RIFAI**

**PhD in Computer System Engineering**

### **CONTACT & PERSONAL INFORMATION**

- **Name:** Dr. Basem Mohamad Al-Rifai
- **Date of Birth:** 15 March 1971
- **Nationality:** Jordanian & Russian
- **Address:** Amman, Jordan
- **Mobile:** +962 796468824
- **Email:** b.rifai@jadara.edu.jo | drbasemrifai@yahoo.com

### **RESEARCH PROFILES & AUTHOR IDENTIFIERS**

- **Google Scholar:** <https://scholar.google.com/citations?hl=ar&user=k9fq1F0AAA2>
- **ORCID:** 0000-0002-4510-1011
- **ResearchGate:** <https://www.researchgate.net/profile/Basem-Alrifai>
- **Scopus ID:** 36679807600  
<https://www.scopus.com/authid/detail.uri?authorId=36679807600>
- **Web of Science Researcher ID:** IQV-0672-2023
- **Researcher ID:** rid53405
- <https://www.linkedin.com/in/basem-alrifai-00591ba5>

### **ACADEMIC DEGREES (EDUCATION)**

- **PhD in Computer Systems Engineering**  
*Tver State Technical University, Russia — 2003*  
**Dissertation Title:** *Expert System for Computer Information Processing Networks*  
**Specialization:** System Analysis, Information Management, and Information Processing
- **Master's Degree in Computer Systems Engineering**  
*Tver State Technical University, Russia — 1999*  
Electronic Computer Systems, Complexes, and Networks
- **Bachelor's Degree in Computer Systems Engineering**  
*Tver State Technical University, Russia — 1997*
- **Professional Diploma in Russian Literature**  
*Tver University, Russia — 1997*

## **Professional & Academic Experience**

<b>Period</b>	<b>Position</b>	<b>Institution &amp; Location</b>	<b>Department &amp; Focus</b>
<b>2023–Pres.</b>	<b>Assistant Professor</b>	<b>Jadara University, Irbid, Jordan</b>	<b>Computer Sciences: Adv. Research &amp; Teaching.</b>
<b>2005–2023 “18 years”</b>	<b>Assistant Professor</b>	<b>Al-Balqa’ Applied University, Jordan</b>	<b>Multi-Dept: CS, SE, Computer Systems, &amp; AI.</b>
<b>2004–2005 “2 years”</b>	<b>Lecturer</b>	<b>Delmon University, Manama, Bahrain</b>	<b>CIS Dept: Instruction &amp; Curriculum Support.</b>
<b>2003–2004 “1 year”</b>	<b>Lecturer</b>	<b>Andalos College, Amman, Jordan</b>	<b>IT Dept: Core IT Instruction &amp; Lab Supervision.</b>
<b>1999–2003 “3 years”</b>	<b>Part-Time Lecturer</b>	<b>Tver State Technical Univ., Russia</b>	<b>Computer Engineering: Focus on Network Systems.</b>

## **Leadership, Governance & Program Management**

<b>Period</b>	<b>Role</b>	<b>Institution</b>	<b>Key Responsibilities &amp; Scope</b>
<b>2006–2010</b>	<b>Head of Departments</b>	<b>Al-Balqa’ Applied University</b>	Head of IT Departments, CS, CIS, SE, and Postgraduate Departments.
<b>2007–2014</b>	<b>Program Manager</b>	<b>Jordan Electronic Academy</b>	Managed e-learning programs and strategic academic alignment.
<b>2005–Pres.</b>	<b>Council Member</b>	<b>Jadara / Al-Balqa’</b>	Active member of University, College, and Dept. Councils.
<b>Ongoing</b>	<b>Curriculum Designer</b>	<b>Various Institutions</b>	Designed BSc plans for AI, Computer Eng., CS, and SE.
<b>Ongoing</b>	<b>Community Outreach</b>	<b>Academic Outreach</b>	Led community service and industry-academic initiatives.

**RESEARCH INTERESTS / AREAS OF EXPERTISE**

<b>Field</b>	<b>Technologies &amp; Specialized Domains</b>
<b>Data Science &amp; AI</b>	<b>Deep Learning &amp; Artificial Intelligence, Machine Learning</b>
<b>Digital Security</b>	<b>IoMT Security (Medical IoT) &amp; Cybersecurity, IoT</b>
<b>Telecommunications</b>	<b>5G Optimization &amp; Wireless Networks</b>
<b>Advanced Systems</b>	<b>Intelligent Decision Support Systems &amp; Expert Systems</b>
<b>Software Systems</b>	<b>Secure Code Development &amp; Software Engineering</b>

**PUBLICATIONS****Publications (Refereed Journals & Conferences)**

Year	Research Title	Journal	Vol. & Issue	Ranking (Scopus/WoS)
<b>2025</b>	Optimizing 5G Resource Allocation with Reinforcement Learning: A Q-Learning and DQN Approach	Journal of Advances in Information Technology	Vol. 16, No. 11	<b>Q2</b>
<b>2025</b>	Enhancing IoT Network Security: A Machine Learning-Driven Framework for Real-Time Intrusion Detection	Mesopotamian Journal of Cybersecurity	Vol. 5, No. 3	<b>Q1</b>
<b>2025</b>	Advancing IoMT Security: Machine Learning-Based Detection and Classification of Multi-Protocol Cyberattacks	JoWUA	Vol. 16, No. 2	<b>Q2</b>
<b>2023</b>	A Simple Approach to Connecting Pt100 by Utilizing an Electroacoustic Resonance Tube	Sensors (MDPI)	Vol. 23, Art. 2775	<b>Q1</b>

Year	Research Title	Journal	Vol. & Issue	Ranking (Scopus/WoS)
2015	Using Moore Dijkstra Algorithm With Multi Agent System To Find Shortest Path Over Network	IJACSA	Vol. 6, Issue 6	Q3
2015	A Novel Wireless and Mobile E-Health Expert System	Intl. Journal of Computer Science (IJCSI)	Vol. 12, Issue 2	Refereed Journal
2014	Investigating Biogeography-Based Optimizing for Patient Admission Scheduling Problems	JATIT	Vol. 70, Issue 3	Q4
2014	An Adaptive Color Night Vision Scheme Tuned Enhanced Particle Swarm Optimization	Intl. Journal of Computer Applications (IJCA)	Vol. 87, No. 6	Refereed Journal
2013	An Intelligent Watermarking Approach Based Particle Swarm Optimization in Discrete Wavelet Domain	Intl. Journal of Computer Science (IJCSI)	Vol. 10, Issue 2	Refereed Journal
2012	<b>Defining Primitives for Mobile E-Learning</b>	<b>ICELBE 2012 (Conference)</b>	<b>First Intl. Conf.</b>	<b>Intl. Refereed</b>
2012	Recognizing Handwriting Indian Numbers using Neural Network	Intl. Journal of Scientific Knowledge (IJSK)	Vol. 1, Issue 2	Refereed Journal
2010	Using New Data Structure to Implement Documents Vectors in Vector Space Model	JATIT	Vol. 19, Issue 1	Q4
2006	Probabilistic Artificial Neural Network For	Journal of Computer Science	Vol. 2, Issue 12	Refereed Journal

Year	Research Title	Journal	Vol. & Issue	Ranking (Scopus/WoS)
	Recognizing the Arabic Hand Written Characters			
<b>2003</b>	Expert system of Computer Networks synthesis	Materials of Intl. Scientific & Tech. Conf.	Tver, Russia	International
<b>2002</b>	Decision-making support in processing of Computer Networks	Journal of IT in Solving Problems of Industry	Vol. 5, Issue 4	Refereed Journal
<b>2002</b>	Features of Flow Management in Networks with a Virtual Connection	Tver Research Publications	Special Issue	Research Paper
<b>2002</b>	An Expert System for Analysis of Computer Network	Materials of All Russia Extra Mural Conf.	Tver, Russia	National Refereed
<b>2001</b>	Synthesis of an Expert System for Analysis of Models and Structures of Computer Network	Journal of Intellectual Control and Info. Systems	Vol. 32, Issue 2	Refereed Journal
<b>2001</b>	Complex Designing of An Expert System for Choice of LAN Structure for Training Student	Materials of All Russia Extra Mural Conf.	Tver, Russia	National Refereed

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✓ **TEACHING EXPERINCE**

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<b>Graduate-Level Courses</b>	<b>Undergraduate: Software &amp; Data</b>	<b>Undergraduate: Systems &amp; Security</b>
<ul style="list-style-type: none"> <li>• Software Design &amp; Testing</li>   <li>• Networks &amp; Communication</li>   <li>• Database Systems</li>   <li>• Operating Systems</li>   <li>• Software Engineering</li>   <li>• Advanced Algorithms</li> </ul>	<p><b>SE &amp; Development:</b></p> <p>Construction, Architecture, Real-Time, OO SE, SQA, Secure SE, Distributed Systems, Formal Methods.</p> <p><b>Data &amp; Analytics:</b></p> <p>Big Data, Machine Learning, DSS, Data Structures.</p>	<p><b>Networks &amp; Security:</b></p> <p>Wireless Security, Network Monitoring, Communication, Network Security.</p> <p><b>IS &amp; Management:</b></p> <p>ERP, MIS, Systems Analysis, Web Dev, E-Commerce.</p> <p><b>Architecture &amp; Programming:</b></p> <p>Digital Logic, Microprocessors, Computer Arch, OOP (C++, Java, Python).</p>

✓ **CERTIFICATIONS, TRAINING & CONFERENCES**

<b>Category / Year</b>	<b>Location &amp; ogram, Achievement</b>
<b>Professional (USA)</b>	<b>Microsoft Certified Excellence</b>
<b>Professional (USA)</b>	<b>Microsoft Certified Technology Specialist (MCTS)</b>
<b>Certification (India, 2010)</b>	<b>Windows SharePoint Services Configuration MCTS:</b>
<b>Cisco Certified (2018)</b>	<b>Network &amp; IT Essentials Cisco Networking Academy: Security</b>
<b>Professional Training</b>	<b>Arab Federation for Tech. Data and Network Security: Education</b>
<b>Technical (2013-2014)</b>	<b>Workshops (BAU) Software Design &amp; Microprocessor</b>
<b>Conference (2023)</b>	<b>IT) &amp; Joint Conference (Electrical Eng. IEEE Jordan Intl.</b>
<b>Conference (2019)</b>	<b>International Intellectual Economics &amp; Business IT Conference</b>
<b>Conference (2012)</b>	<b>ICELBE)) First International Conference on E-Learning</b>
<b>Conference (2007)</b>	<b>Research Conference (Italy) E-Commerce &amp; Networking</b>
<b>Conference (2006)</b>	<b>Higher Education Reform for Knowledge Economy Jordan))</b>

✓ **Professional memberships**

<b>Affiliation Type</b>	<b>Society &amp; Organization</b>
International Member	USA) Microsoft Professional Community
Professional Engineer	Jordan Engineers Association
Professional Member	Jordan Computer Society
Industry Member	ICT Associations of Jordan
Academic Member	Cisco Networking Academy® Program

## **Technical Skills Portfolio**

<b>Tools, Languages &amp; Frameworks</b>	<b>Field</b>
Kali Linux, Nessus Pro, Wireshark, X-Ways Forensics	<b>Cybersecurity</b>
Python, C++, Java, Assembly, Visual Studio	<b>Programming</b>
Linux (Kali), UNIX, macOS, Windows, Android	<b>OS</b>
MS Project, Monday, Team Center, ERP Systems	<b>Management</b>

## **LANGUAGES**

- Arabic: Native
- English: Excellent (Written & Spoken)
- Russian: Excellent (Written & Spoken)

## **REFERENCES**

1. **Dr. Khalaf Katatneh** – Al-Balqa' Applied University  
Email: dr.khalaf@bau.edu.jo | Tel: +962 799 656 066
2. **Dr. Nijad Al Najdawi** – Al-Balqa' Applied University  
Email: n.al-najdawi@bau.edu.jo | Tel: +962 775 054 992