DR. TAREEF AL-KELLEZLI



Assistant Professor in Information Technology

(Network Operating Systems)

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PROFESSIONAL EXPERIENCE

ASHUR UNIVERSITY — Iraq, Baghdad

Assistant Professor (CYBERSECURITY ENGINEERING DEPARTMENT) — **Sep 2024 - Until now**

- Quantitative Applications (Theoretical + Lab)
- Computers (Theoretical + Lab)
- Cybersecurity Fundamentals (Theoretical + Lab)
- Digital Logic Design (Theoretical)
- Network (Theoretical + Lab)

AL-BAATH UNIVERSITY (NETWORKS AND COMPUTER SYSTEMS ENGINEERING DEPARTMENT) — Syria, Homs

Assistant Professor — **Aug 2023-May 2024**

- Information Security (Theoretical).
- **Operating Systems2** (Theoretical).
- Information Theory (Theoretical)
  - Topics: Entropy, Huffman Encoding & Decoding using MATLAB, Shannon encoding.
- Logic Circuits (Theoretical)
  - Topics: Combinational logic design principles, Flip-Flops, Registers and Counters, Combinational-Circuit Building Blocks.

TEACHING ASSISTANT/ DEMONSTRATOR (INFORMATIC ENGINEER FACULTY): — Feb 2017 – Aug 2023

Academic Year 2022-2023:

- Information Theory Lab: Entropy, Huffman Encoding & Decoding using MATLAB.
- Information Security Lab: Symmetric and asymmetric encryption (DES, 3DES, RSA, DH, SSL/TLS protocol, Kerberos).

Academic Year 2021-2022:

- Information Security (Theoretical): Symmetric and asymmetric encryption (DES, 3DES, RSA, DH, SSL/TLS protocol, Kerberos).
- Algorithms and Data Structures Lab: Recursive and recursive codes, Draw recursive curves, Backtrack problem solving.
- Parallel Programming Lab: Threads in Java, Parallel java2 Library.

Academic Year 2020-2021:

- Information Theory Lab: Entropy, Huffman Encoding & Decoding using MATLAB.
- Parallel Programming Lab: Threads in Java, Parallel java2 Library.

Academic Year 2019-2020:

- Information Theory Lab: Entropy, Huffman Encoding & Decoding using MATLAB.
- Parallel Programming Lab: Threads in Java, Parallel java2 Library.

Academic Year 2018-2019:

- Information Theory Lab: Entropy, Huffman Encoding & Decoding using MATLAB.
- Parallel Programming Lab: Threads in Java, Parallel java2 Library.

Academic Year 2017-2018:

- ESP3 Lab: Real-time Streaming, RTP, Example application in JAVA.
- Computer Networks Lab: Network devices, IP, VLSM, FLSM, AD-DNS-DHCP, Security, Sharing, IIS.
- Distributed Systems and Applications Lab: TCP Socket, UDP Socket, RMI, CORBA, Multi-Threading.

Academic Year 2016-2017:

- Network Design and Analyzing Lab: VLAN, Routing between VLAN, STP, Port Security, Ethernet Channel, HSRP, VOIP.
- Distributed Systems and Applications Lab: TCP Socket, UDP Socket, RMI, CORBA, Multi-Threading.

PUBLISHED RESEARCH

- " **Enhanced Neutrosophic Set and Machine Learning Approach for Kidney Disease Prediction**" (2025) : This article was published in **Neutrosophic Sets and Systems Journal.**
- **" Optimizing Animal Classification through Convolutional Neural Networks" (2025):** This article was published in **Precision Livestock Journal.**
- **"Improved switching time of nodes in the RPL protocol within the Contiki OS" (2023):** This research aimed to optimize the switching time of nodes in the RPL protocol, enhancing the efficiency of the Contiki operating system. By employing advanced analytical techniques and simulation data, we achieved significant improvements in node switching times. This study was published in Al-Baath University Journal.

- **"Achieving load balancing of IoT networks within the Contiki operating system" (2023):** In this project, I was responsible for designing and implementing a load balancing mechanism to improve the distribution of network traffic in IoT systems. Our findings demonstrated notable improvements in load distribution and overall network performance. This research was also published in Al-Baath University Journal.
- **"Performance analysis of wireless sensor network operating systems" (2019):** This study involved a comprehensive performance analysis of various operating systems used in wireless sensor networks. By comparing different systems, we identified key factors affecting their efficiency and proposed enhancements to optimize their performance. The results of this research were published in Al-Baath University Journal.

Other Experiences:

- Citrix Virtualization Technology
- SDN and SDWAN
- FortiGate Firewall
- Design and Build website using AngularJS with NodeJS and mongo DB
- E-commerce website using Vuejs with NodeJS and mongo DB
- E-commerce website using angular7 with NodeJS and mongo DB
- E-commerce mobile app using ionic with php and MySQL
- E-commerce mobile app using flutter with php and MySQL
- Mobile application for university housing using flutter with NodeJS and mongo DB

EDUCATION

Al-Baath University (Homs, Syria) **Jul 2020- Sep 2023**

- PhD in Systems Engineering and Computer Network at the Faculty of Information Technology Engineering - Excellent, Graduation average (93 %).
- •Advanced Topics in (Computer Network, Network Security, Real Time and Distributed System, RPL Protocol, Contiki OS, load balancing, IoT).
- PhD thesis in “Improving resource management in Iot operating systems".

Al-Baath University (Homs, SYRIA) **Nov 2016- Jul 2019**

- MSc in Systems Engineering and Computer Network at the Faculty of Information Technology Engineering - Very Good, Graduation average (80.66 %).
- Passed the first year of taught Subjects with average (73.77 %)
- Master thesis in “Performance analysis of network operating systems under various operation conditions".

Al-Baath University (Homs, SYRIA) **Sep 2010 – Jul 2015**

- Bachelor’s degree (5 Years) in informatics Technology Engineering, with major in Systems Engineering and Computer Network at the Faculty of Information Technology.
- Mention: Excellent, Graduation average (87.210%).
- Graduation Project:
  - 4th year: Virtualization Technology (Grade: 95%).

- 5th year: Private Cloud Computing (Grade: 94%).

HONORS AND AWARDS

- **The memorial license of BASEL AL-ASAD for excellent students (1st order)** [**2011-2012**]
- **The memorial license of BASEL AL-ASAD for excellent students (3rd order)** [**2012-2013**]
- **The memorial license of BASEL AL-ASAD for excellent students (1st order)** [**2013-2014**]
- **The memorial license of BASEL AL-ASAD for excellent students (1st graduate student)** [**2014-2015**]

COMPUTER SKILLS

Technical Skills

- **Programming Languages:** MATLAB, Java,C++,C,Python
- **Network Protocols:** TCP, UDP, RTP, IP,DNS,DHCP.
- **Security Protocols:** DES, 3DES, RSA, DH, SSL/TLS, Kerberos
- **Database Management:** SQL,MYSQL,Postgress
- **Parallel Programming:** Threads in Java, Parallel java2 Library
- **Information Theory:** Entropy, Huffman Encoding & Decoding, Shannon encoding
- **Distributed Systems:** TCP Socket, UDP Socket, RMI, CORBA, Multi-Threading
- **Computer Networks:** Network devices, IP, VLSM, FLSM, AD-DNS-DHCP, Security, Sharing, IIS

Soft Skills

- **Teaching and Mentoring:** Extensive experience in conducting labs and theoretical classes, guiding students through complex subjects.
- **Problem-Solving:** Strong analytical skills demonstrated through solving complex algorithms and data structures problems.
- **Communication**: Effective communication skills developed through years of academic teaching and presentations.
- **Team Collaboration**: Ability to work effectively in team settings, managing and collaborating with colleagues and students.
- **Presentation and Explanation:** Strong presentation and explanation skills.

FIELD OF RESEARCH

- Cybersecurity.
- Bigdata.
- Artificial Intelligence.
- Decision Support Systems.
- Machine Learning.
- Cloud Computing.

TEACHING COURSES

- Computer Skills.
- Network Security and Cryptography.
- Cloud Computing.
- Database Systems.
- Operating Systems.
- Communication Network.
- Research Methods and Ethics.
- Computer Security.
- Information System.
- Storage Information Systems.

PERSONAL INFORMATION

Nationality : Syrian
Date of birth : 6 Sep 1990
Gender : Male
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Email : dr.tareef.alkellezli@gmail.com
Google Scholar : https://scholar.google.com/citations?hl=ar&user=dN_1-cwAAAAJ

LANGUAGES

ARABIC: NATIVE
ENGLISH: Very Good

REFERENCES

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Other References And Certificates Of Technology Experience Are Upon Request.