

Eman Saleh Al Roumi

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EDUCATION

Dept. of Computer Engineering at Kuwait University - Kuwait

Master of Science - Computer Engineering

Dept. of Computer Engineering at Kuwait University - Kuwait

Bachelor of Science - Computer Engineering

JOB EXPERIENCE

2019 – Present Associate Teaching Assistant

Department of Information Sciences

College of Life Sciences

2014 – 2019 Teaching Assistant (A)

Department of Information Sciences

College of Computer Science and Engineering - College of Life Sciences

2011 – 2014 Teaching Assistant (B)

Department of Information Sciences

College for Women - College of Computer Science and Engineering

2006 – 2011 Scientific Assistant

Department of Information Sciences

College for Women

SKILLS

Programming Languages: C++, Java, C, Visual Basic, ASP.NET, SQL, HTML, CSS, JavaScript, Python, R

Applications: MS Visual Studio, BlackBoard, Moodle, MS office, MS Project, MS Visio, R/RStudio

Operating Systems: Windows, Linux, Mac OS

Database Systems: SQL Plus, Oracle Forms Builder, Oracle Reports Builder, MS SQL Server

Languages: Fluent in both Arabic and English.

TEACHING EXPERIENCE

- For the lab courses I taught, I did the following:
 - Prepared, evaluated, and provided key solutions for lab exercises, quizzes, and lab final exams.
 - Prepared lab handouts/material.
- For the courses I assisted,
 - Preparing key solutions for class assignments and quizzes.
 - Evaluated class assignments and quizzes.
 - Evaluated and supervised students' projects
 - Evaluated students' project presentations and demos.
- Prepared and submitted required documents for eCAF for accreditation.
- Evaluate students' portfolios for the ISC 088 course in Spring 2017, Fall 2016, Fall 2015, Fall 2014, Fall 2013, Spring 2013, Fall 2012, Spring 2012, Fall 2011, and Spring 2010
- Assisted in teaching the following undergraduate courses
 - CLS 107 College Algebra
 - CLS 108 Applied Calculus
 - CLS 109 Statistics
 - CLS 130 Ethics and Practices
 - CLS 132 Women in the Workplace
 - CLS 260 Career Perspectives
 - ISC 100 Fundamentals of Personal Computers
 - ISC 101 Introduction to Information Systems
 - ISC 105 Computers and Society
 - ISC 110 Introduction to Information Technology Applications in Society
 - ISC 115 Computing Foundations
 - ISC 210 Computational Methods
 - ISC 240 Programming and Problem Solving
 - ISC 241 Data Structures
 - ISC 321 Database Systems I
 - ISC 331 IS Theory and Practice
 - ISC 340 Web Programming I
 - ISC 357 Operating Systems and File System Organization
 - ISC 380 Introduction to Management Information Systems
 - ISC 480 IS Development
 - ISC 499 Capstone Project
- Assisted in teaching the following graduate courses:
 - MSIT 527 Data Management, Mining, and Warehousing
 - MSCIS 570 Database Management Systems
 - MSCIS 571 Data Mining and Information Retrieval
- Prepared a complete lab manual for ISC 321 Database System course for ABET Accreditation
- Involved in editing lab manual for ISC 241 course in 2019.
- Involved in editing lab manual for ISC 240 course in 2014.
- Involved in editing lab manual for ISC 100 course in 2012 and 2017.
- Involved in preparing lab manual for ISC 210 course in 2007.

PUBLICATIONS

Journals papers:

- B. A. Ali, H. M. Abdulsalam, A. Almonaies, and **E. Alroumi**, A Cloud-Fog Trust Service Framework for Wireless Sensor Networks. *The Journal of Supercomputing*. Springer publishing. Submitted.
- H. M. Abdulsalam, B. A. Ali, and **E. AlRoumi**, Usage of Mobile Elements in Internet of Things Environment for Data Aggregation in Wireless Sensor Networks. *Computers and Electrical Engineering*. Elsevier publishing. Vol 72, pp 789-807, November 2018.

Conferences and Workshops papers and posters:

- H. M. Abdulsalam, M. M. Khajah, and **E. Alroumi**, A Software Tool to Analyze and Predict Student Performance via Artificial Intelligence Models, (poster in) *Kuwait University Scientific Poster Day, Kuwait University, Kuwait (March 2023)*
- **E. AlRoumi**, H. M. Abdulsalam, and B. Ali, A Technique for Data Aggregation in WSN Using IoT Mobile Elements, (poster in) *Kuwait University Scientific Poster Day, Kuwait University, Kuwait (March 2016)*
- **E. AlRoumi**, H. M. Abdulsalam, B. A. Ali, and A. AlYatama, A Framework for Data Aggregation in WSN using IoT Mobile Elements, (poster in) the *First Kuwait International Conference on Computing Sciences and Engineering, Kuwait University, Kuwait (2015)*.
- H. M. Abdulsalam, B. A. Ali, and **E. AlRoumi**. Deploying a LEACH Data Aggregation Technique for Air Quality Monitoring in Wireless Sensor Network, in *Proc. of the 2nd International Workshop on Communications and Sensor Networks (ComSense-2014), Niagara Falls, Canada (2014)*.
- **E. AlRoumi**, H. M. Abdulsalam, B. A. Ali, A. AlYatama, AQM-LEACH: Air Quality Monitoring LEACH-Based Data Aggregation Technique In Wireless Sensor Network, (poster in) the *First Kuwait International Conference on Life Sciences, Kuwait University, Kuwait (2014)*.

DEPARTMENT ACTIVITIES

- Attend department seminars and participate in department technical/social activities
- Participate in KU-KFAS Science Week
- Helped in the automation of the CAF folders
- Involved in ABET 2021 visit
 - Helped in creating the ABET virtual display room for the virtual visit
 - Helped in making the Student outcome mechanism reports for the academic years 2018-2019, 2019-2020 and 2020-2021
- Involved in ABET 2018 visit
 - Prepared and printed material for the ABET display room
 - Reviewed and corrected the files in the ABET display room
 - Insured the lab manuals were up to date
 - Provided the missing documents
- Involved in department promotion initiative
 - Attending admission fair
 - Helped in preparing a presentation for the orientation meeting
 - Involved in preparing ISC Open day
- Member of the following committees
 - Curriculum Affairs Committee for the years 2015-2016, 2014-2015, 2020-2021 and 2021-2022
 - Assessment & Continuous Improvement Committee for the years 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021 and 2021-2022
 - Department's Annual Report committee for the years 2022-2023 and 2023-2024

SELF IMPROVEMENT

Attended the following Lectures/Workshops

- One-day workshop on Communicating Your Research to Non-specialists, 2 October 2023
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- One-day seminar on Maintaining CAF Folders and Collecting Student Course Data, 15 February 2021
- "استخدام تقنيات الذكاء الاصطناعي لمراقبة الإختبارات الإلكترونية عن بعد"(Online) November 2020
- One-Day workshop Scopus Overview for new users: How it can help your research cycle? August 2020
- One-Hour webinar on The End Note, August 2020
- One-Hour webinar on The Web of Science, August 2020
- One-day Research Ethics workshop at College of Life Sciences – Kuwait University, November 2019
- One-day Researcher Academy on Campus Elsevier Day workshop at Kuwait University, April 2019
- One-day workshop on How to motivate yourself, College of Life Sciences - Kuwait University. May 2018
- One-day faculty workshop on Active Teaching with Technology, Kuwait University. Mar 2018
- Two days on Teaching Excellence Workshop, Kuwait University and with Kuwait Foundation for the Advancement of Sciences (KFAS) in association with University of California, Berkeley. Mar 2017

Attended the following conferences

- The InfoSec Summit'22. Kuwait 25 May 2022
- The Third Cybersecurity Education and Research Conference (cerc2021). Kuwait November 2021
- The Second International Conference on Computing Sciences and Engineering (ICCSE2018). Kuwait University March 2018
- First International Conference on Computing Sciences & Engineering (ICCSE' 2015). Kuwait University March 2015
- First Kuwait International Conference on Life Sciences (KICLS'2014). Kuwait University April 2014

WORKSHOP

Prepared and presented the first "Programming for Beginners Workshop II in Java Programming" organized by Click-IT Club in November 21st,2016

References are available upon request