Waseem M. Alhasan

Assistant Professor in Computer Engineering

(Artificial Intelligence & Data Science)

OBJECTIVE

Dr Alhasan has more than 9 years' experience in Computer Science and Engineering teaching at both undergraduate and postgraduate levels. Also, he has the knowledge of American higher education teaching model. His main area of research is focused on cutting-edge fields such as AI, specifically in Computational Intelligence, Deep Learning, and Embedded systems, as well as in Data Science, including Data Analysis, Data Visualization, OLAP & Data Warehousing, and Big Data.

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LANGUAGE

Arabic: Native proficiency.

English: Full proficiency.

EXPERIENCE

MAY 2023 – JUL 2023

Adjunct Faculty Member, University of Dubai, Dubai, UAE

- Instructed and mentored 26 undergraduate students in the management information system (MIS) course.
- Emphasized the practical application of information systems (IS) in various business fields, resulting in improved student understanding and appreciation of IS concepts.

OCT 2022 – JAN 2023

Adjunct Faculty Member, De Montfort University, Dubai, UAE

- Delivered exceptional teaching effectiveness in two master's degree courses: Fuzzy Logic and Data Warehouse Design & OLAP.
- Published a paper based on a practical assessment conducted during the Fuzzy Logic course, contributing to the academic field.

JAN 2022 – DEC 2022

Visiting Assistant Professor, American University in the Emirates, Dubai, UAE

- Instructed undergraduate courses in Introduction to Programming, Mobile Technology, Decision Support Systems, Digital Logic and Design, Computer Architecture and Organization, and Artificial Intelligence.
- Provided guidance and advising to a cohort of 60 students, assisting them in their academic journey.
- Supervised two undergraduate capstone projects, resulting in successful completion and valuable contributions to the students' portfolios.

SEP 2018 – SEP 2021

Vice-Dean of Engineering Faculty, Al-Sham Private University, Damascus, Syria

- Demonstrated outstanding teaching effectiveness in six courses: Computer Skills, Database, Introduction to Programming, Algorithms & Data Structure, Machine Learning & Neural Networks, and System Programming.
- Collaborated with faculty members to develop and implement new academic policies, fostering a conducive learning environment.
- Contributed to university-wide committees, including the Academic Quality Assurance Unit, to enhance academic standards and quality.

OCT 2018 – OCT 2020

Adjunct Faculty Member, Damascus University, Damascus, Syria

- Facilitated an engaging E-business course for 13 master's students, incorporating interactive discussions, case studies, and guest speakers into lectures, resulting in enhanced student understanding and practical application of course concepts.

SEP 2017 – SEP 2018

Program Chair, Al-Rasheed Private University, Damascus, Syria

- Exhibited exceptional leadership and administration skills as the Head of the Communication Engineering department with effectively managing departmental affairs for one year.
- Successfully delivered four highly effective courses: Computer Skills, Programming, Database, and Information Systems, utilizing innovative teaching methods to promote student engagement and critical thinking, resulting in improved academic performance.

SKILLS ■ ■ ■ ■ ■

- C/C++/C#, Java, Python, and SQL.
- Microsoft Office (365), MS Project, and SSPS applications.
- Linux, Microsoft Windows, and Microsoft Server.
- HTML, CSS, JavaScript, and Flutter.
- Google Classroom, Moodle, Academia, Blackboard, and LMS.
- Capable of working effectively in team environments.
- Committed to lifelong learning and innovation.
- Excellent communication skills, both verbally and in writing, and excel at problem resolution.
- Knowledgeable about ABET accreditation requirements.
- Skilled in university teaching, research, statistics, and curriculum development.

ACCOMPLISHMENTS

- **Certificate of Reviewing, Elsevier:**
"Swarm & Evolutionary Computation".
- **Certificate of Excellence, Elsevier:**
"Research Data Management".
"Research Collaborations".
"Certified Peer Reviewer".
"Writing Skills".
"Book Writing".
- **Certificate of Completion, PMI**:
 "Project Management Foundations!".
- **Certificate of Completion, IBM**:
"Python for Data Science".
"Data Analysis with Python".
"Data Visualization with Python".
"Machine Learning with Python".
"Deep Learning with Python".
"Deep Learning with TensorFlow".
"SQL and Rational Databases 101".
"Big Data Foundations".
- **Certificate of Completion, IEEE**:
 "Values by Design in Algorithmic Era"
"Enterprise Block-chain for the IoT"
"Intelligent Control of Connected and Automated Vehicles"
"3G Wireless Systems"
"Transparency and Accountability for Robots and Artificial Intelligence Systems"

SEP 2016 – SEP 2017

Project Manager, Ministry of Public Works and Housing, Damascus, Syria

- Led a team of twelve engineers and trainers in the successful installation of an enterprise resource planning (ERP) system.
- Managed the project and implemented a comprehensive training program for employees, ensuring seamless adoption of the ERP system.
- Completed the project on time and within budget, resulting in significant improvements in operational efficiency and productivity for the ministry.

SEP 2015 – SEP 2016

Assistant Professor, Yarmouk Private University, Damascus, Syria

- Implemented a variety of teaching strategies and methods to optimize student learning outcomes across four diverse courses: Programming, Database, Web Programming, and Genetic Algorithms, resulting in improved student performance and engagement.

SEP 2014 – SEP 2015

Assistant Professor, Ittihad Private University, Damascus, Syria

- Optimized student learning outcomes in four courses: Microprocessors, Database, Embedded systems, and Computer Vision.
- Incorporated diverse teaching strategies and methods to engage students and foster their critical thinking skills, resulting in improved academic performance.

EDUCATION

Ph.D. in Computer Engineering, Engineering Faculty, Cairo University, Cairo, Egypt, **2012**.
MSc in Computer Engineering, Engineering Faculty, Cairo University, Cairo, Egypt, 2006.
High Diploma in Communication Engineering, Engineering Faculty, Damascus University, Damascus, Syria, 2002.
BSc in Electronic Engineering, Engineering Faculty, Damascus University, Damascus, Syria, 2000.

PUBLICATION

- **W. Alhasan**, R. Ahmad, R. Waziralid, R. Almajalidd, W. Abo Shdeed, "Adaptive Center of Mass Particle Swarm Optimizer for solving Tourist Trip Planning", Applied Soft Computing Journal, June 2023. (Submitted to Journal)
- **W. Alhasan**, and W. Abo Shdeed, "Improved Epilepsy Seizure Prediction: A Novel Approach Integrating Adaptive Grey Wolf Optimizer and Auto-Encoder with Genetic Algorithm", Neuroscience Informatics, June 2023 (Submitted to Journal).
- **W. Alhasan**, M. Ali, and W. Abo Shdeed, "Fuzzy Logic-Based Recruitment System: An Innovative Solution for HR Departments", International Journal of Engineering Research & Technology, Vol. 12, No. 4, April 2023.
- T. Mohamed, A. Ibrahim, T. Faiz, **W. Alhasan**, A. Atta, V. Mago, M. A. Ejaz and S. Muneer, "Intelligent Hand Gesture Recognition System Empowered With CNN", The International Conference on Cyber Resilience, ICCR22, Dubai, UAE, October 2022.
- W. Abo Shdeed, and **W. Alhasan**, "Digital Transformation in the Syrian Healthcare Sector: A Proposed Model for the Unified Electronic Health Record (HER)", The 4th AUE International Research Conference (AUEIRC22) at the American University in the Emirates, Dubai, UAE, May 2022.
- W. Abo Shdeed, **W. Alhasan** and G. Karraz, "The Effect of Health Information Systems on the Administrative and Medical Performance in the Higher Educational Ministry Hospitals: The Case Study of Al-Mouwasah University Hospital in Damascus", Tishreen University Journal of Research and Scientific Studies - Engineering Sciences Series. Vol.43, No. 4, Lattakia, Syria, October 2021.
- M. Alsoos and **W. Alhasan**, "Introduction to Programming", Al-Sham Private University Publishing, Damascus, Syria, September 2019.
- **Waseem. M. Alhasan**, Saleh Ibrahim, Hesham A. Hefny, and Samir I. Shaheen, "LDWMeanPSO: A New Improved Particle Swarm Optimization Technique", ICENCO2011, Cairo, Egypt, February 2011.
- **W. Al-Hassan,** M. Fayek, S. Shaheen, "PSOSA: An Optimized Particle Swarm Technique for Solving the Urban Planning Problem", ICCES2006, Cairo, Egypt, February 2006.