
Shimaa Ali Al-Quradaghi

Assistant Professor

Mechanical and Industrial Engineering Department,

Qatar University

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Assistant Professor in Industrial Engineering; first Qatari female to get the degree. Specialized in Industrial Symbiosis and Eco-Industrial Park. Interested in Engineering Education and Innovation. Proficient in problem solving and creative systems thinking. Member in several committees from department level to university level.

Educational Background

University of Central Florida, Orlando, FL, USA

Ph.D. in Industrial Engineering

Aug 2021

GPA: 3.9/4

Northeastern University, Boston, MA, USA

Masters of Science in Engineering Management

May 2013

GPA: 3.5/4

Qatar University, Doha, Qatar

Bachelor of Science in Industrial and Systems Engineering

June 2006

GPA: 3.1/4

Work Experience

Director of Transportation and Traffic Safety Center

Feb 2023 - Present

College of Engineering, Qatar University, Qatar

Assistant Professor

Sep 2021 - Present

Mechanical and Industrial Engineering Department, Qatar University, Qatar

Lecturer

Sep 2016 - Aug 2021

Mechanical and Industrial Engineering Department, Qatar University, Qatar

Teaching Assistant

Sep 2009 - Aug 2016

Mechanical and Industrial Engineering Department, Qatar University, Qatar

Workforce Planning Analyst

July 2006 - July 2007

Human Resources Department, RasGas Company, Qatar

Advising Experience

Co-Supervisor *Feb 2023 - Present*
Mechanical and Industrial Engineering Department, Qatar University, Qatar
- Supervise Master students

Capstone Design Coordinator *Dec 2016 - Nov 2018*
Mechanical and Industrial Engineering Department, Qatar University, Qatar
- Supervise senior students conducting their senior design and provide help in research techniques

Undergraduate Academic Advisor *Sep 2016 - July 2017*
Mechanical and Industrial Engineering Department, Qatar University, Qatar
- Assist freshmen to select the right courses and stay in the program roadmap

Professional Affiliations

American Society for Engineering Management (ASEM),
Member *April 2019 - Present*

Institute for Operations Research and the Management Sciences (INFORMS),
Member *April 2019 - Present*

Institute of Industrial and Systems Engineers (IISE),
Member *April 2018 - Present*

University and Professional Service

Institutional Accreditation Committee, Qatar University *Feb 2022 – Present*
Member

Industrial Engineering Academic Genealogy Project, University of Central Florida
Lead *Dec 2018 – Present*

Institute of Industrial and System Engineers - Student Chapter, Qatar University
Coordinator *Jan 2017 - Dec 2017*

Quality Assurance Committee, Qatar University
Member *Sep 2013 - Present*

Continuous Development Committee, Qatar University
Member *Sep 2013 - Present*

First-Year Experience Project, Qatar University
Member *Jan 2013 - Dec 2013*

Accomplishments

- 1st Qatari Female Professor in Industrial Engineering, (University of Central Florida, 2021)
 - 1st Industrial Engineering Program Graduate in Qatar, (Qatar University, 2006)
 - Fully Sponsored by Qatar University to pursue graduate studies, (2010-2021)
 - Outstanding Student Award, 2013
Awarded annually by Qatar University Scholarship Office, Qatar
 - Reviewer for academic papers in engineering journals and conferences
 - Member of several committees in Qatar University
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Publications/Presentations

- 1-** Al-Quradaghi, S., Kucukvar, M., & Onat, N.C. (2018). Towards a Sustainable Management of End-of-Life Vehicles in Qatar: A Closed Loop Circular Economy Model. Institute of Industrial & Systems Engineers Annual Conference & Expo 2018, Orlando, Florida, USA, May 19-22, 2018.
- 2-** Al-Quradaghi, S., Kucukvar, M., & Onat, N.C. (2018). Towards a Sustainable Management of End-of-Life Vehicles in Qatar: A Closed Loop Circular Economy Model. 3rd North American Conference in Industrial Engineering and Operations Management, Washington DC, USA, September 27-29, 2018; Proceedings of the International Conference on Industrial Engineering and Operations Management Washington DC, USA, September 27-29, 2018. <http://ieomsociety.org/dc2018/papers/195.pdf>
- 3-** Al-Quradaghi, S., Chang, N. (2019). System Dynamics of Scrap Vehicles Recycling with Integrative Water-Energy-Waste Sectors. Institute of Industrial & Systems Engineers Annual Conference & Expo 2019, Orlando, Florida, USA, May 18-21, 2019. <https://www.eventscribe.com/2019/IISE/fsPopup.asp?efp=SVNBQIBFWkY3NDMw&PresenterID=643785&rnd=0.2169482&mode=prese nterinfo>
- 4-** Al-Quradaghi, S., Badiru, A., Omitaomu, O (2020). Industrial Engineering Academic Genealogy for ISE Professional Advancement. Institute of Industrial & Systems Engineers Annual Conference & Expo 2020 Virtual, Nov 1-3, 2020.
- 5-** Al-Quradaghi, S., Zheng, Q.P., Elkamel, A. (2020). A Robust Framework for the Formalization of Eco-Industrial Parks: A Case Study of End-of-Life Vehicles. Institute for Operations Research and the Management Sciences Annual Meeting 2020 (Virtual), Nov 7-13, 2020.
- 6-** Al-Quradaghi, S., Zheng, Q.P., Elkamel, A. Generalized Framework for the Design of Eco-Industrial Parks: Case Study of End-of-Life Vehicles. Sustainability 2020, 12, 6612.

7- Al-Quradaghi, S., Zheng, Q. P., & Elkamel, A. (2021). Generalized Framework for EIP Design. Adapted with Open-Access Author's consent form. Sustainability: A Systems Engineering Approach to the Global Grand Challenge, p 135.

8- Al-Quradaghi, S., Zheng, Q. P., Betancourt, A., & Elkamel, A. (2021). *A Mathematical Programming Approach Towards a Circular Economy for End-of-life Vehicles*. 4th European Conference on Industrial Engineering and Operations Management, Rome, Italy, Aug 2-5, 2021 (Virtual).
