

Aly Owida, Ph.D.

Assistant Professor



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Date & Place of Birth: December 24, 1984, Alexandria, Egypt

SUMMARY

Aly Owida is an Assistant Professor at the Department of Industrial and Management Engineering (IME) at the Arab Academy for Science, Technology and Maritime Transport (AASTMT), which is an ABET and IET accredited program of study since 2010.

Dr. Owida has received his PhD in Operations and Supply Chain Management from University of Limerick, Ireland. His research work aim was to review and analyze the current existing contracting activities for outsourcing after-sales field repair services with a specific focus on the Middle Eastern emerging markets, and to assess the potential for improving after-sales field repair services contracting through developing continuous improvement approach to support service contracting in both established and emerging markets.

He has previously been appointed as a Teaching Assistant and an Assistant Lecturer at IME and has been working in the academic field of teaching and research since graduation in 2007. He has a considerable experience in teaching Operations Research and Management Science, Project Management, Engineering Economy, and Supply Chain Management.

He has supported administrative and academic advising services at IME such as quality coordination, status report development, academic advising, website improving, and timetabling and scheduling. Also, he has been involved in the accreditation process of industrial engineering required by ISO, ABET, IET, National Authority for Quality Assurance and Accreditation in Egypt, and the Supreme Council of Universities in Egypt.

Dr. Owida research interests lies in the modelling, analysis, and performance improvement of industrial systems and business processes within the area of operations and supply chain management, including manufacturing and service supply chains. He is interested in the use of discrete-event simulation, business process modelling and business process simulation, and optimization techniques. Other areas of interest include field service management, supplier selection and contracting in service supply chains, scheduling of projects and industrial systems, supply chain risk management and disruption management, supply chain resilience, supply chain sustainability, and agri-food supply chains transportation and logistics.

EDUCATION

- 2013 – 2018** Department of Design and Manufacturing Technology, School of Engineering, University of Limerick.
Ph.D. Operations and Supply Chain Management, May 2018.
- 2007 – 2011** Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport.
M.Sc. Industrial and Management Engineering, April 2011. GPA: 3.96
- 2008 – 2009** Graduate School of Business, Arab Academy for Science, Technology and Maritime Transport.
Postgraduate Diploma Business Administration, October 2009. GPA: 3.79
- 2002 – 2007** Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport.
B.Sc. Industrial and Management Engineering, July 2007. GPA: 3.88

PROFESSIONAL EXPERIENCE

- Jun 2018 – Now** Department of Industrial and Management Engineering, College of Engineering and Technology
Arab Academy for Science, Technology and Maritime Transport.
Assistant Professor.
- Nov 2019 – Feb 2020** 3S Research Group, School of Management, College of Business Technological University Dublin (TU Dublin).
Postdoctoral Researcher.
- Jun 2011 – May 2018** Department of Industrial and Management Engineering, College of Engineering and Technology
Arab Academy for Science, Technology and Maritime Transport.
Assistant Lecturer.
- Sep 2007 – May 2011** Department of Industrial and Management Engineering, College of Engineering and Technology
Arab Academy for Science, Technology and Maritime Transport.
Graduate Teaching Assistant.

RESEARCH INTERESTS

- Modelling, simulation, and optimization of different operations and/or supply chains
- Modelling, analysis, and simulation of different business processes
- Field service management and field repair services provision
- Service supplier selection and contracting
- Scheduling of projects and industrial systems
- Risk management, disruption management, resilience, and sustainability of supply chains
- Transportation and logistics of agri-food supply chains

COURSES TAUGHT

- Operations Research
- Management Science
- Supply Chain Management
- Engineering Project Management
- International Operations Management
- Engineering Economy
- Engineering Cost Analysis
- Leadership in Industrial Organizations
- Engineering Statistics
- Design of Experiments
- Industrial Relations
- Manufacturing Technology
- Manufacturing Processes

TECHNICAL EXPERIENCE

- *Quality Coordination.* Documentation and organization of the quality records.
- *Status Report Development.* Development and update of the department status report.
- *Academic Advising.* Helping and advising students during their registration process.
- *Timetabling and Scheduling.* Development of the undergraduate schedules, solving conflicts, coordinating with other departments, and coordinating with external lecturers.
- *Department Publicity.* Conducting marketing activities for undergraduate and postgraduate programs.

PUBLICATIONS

Theses and Final Year Project

- *A continuous improvement approach for outsourced after-sales field repair services contracting, Ph.D. Thesis.* Work included the development of a contracting methodology for the outsourcing of after-sales field repair services. A framework was proposed to allow for a buyer-supplier collaborative negotiations including an execution approach for the implementation of continuous improvement over the contract lifecycle with agreement on benefits sharing. Framework testing using real data has shown to provide significant improvements in terms of ongoing cost reductions and improved service quality, which represents a developed trial-ready approach.
- *Investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production, M.Sc. Thesis.* Work included investigation of the operational and economical feasibility of implementing radio frequency identification technology for tracking and identification of items on the shop floor in a job shop manufacturing environment. Simulation has been used to assess the impact of introducing the RFID technology on a number of performance measures.
- *Resource Scheduling of Manufacturing Systems, B.Sc. Final Year Project.* Work included the development of a simulation model for the operations of a plant that specializes in the production of powder desserts mixes and instant powder drinks. The model has been used to assess different production schedules and their impact on several performance measures such as mixers utilization and changeover time.

Refereed Articles

- Amr Mahfouz, Rishi Choudhary, John Crowe, **Aly Owida**, and Wael Rashwan, “*Investigating Brexit Implications on the Irish Agri-food Exports: A Simulation-based Scenario Mapping Model*” Winter Simulation Conference, **2020**.
- **Aly Owida**, PJ Byrne, Cathal Heavey, and Khaled S. El-Kilany, “*Product-service systems in Egypt: a multicase evaluation of field repair*” International Journal of Emerging Markets, **2020**.
- Hassan ElFiky, **Aly Owida**, and Noha M. Galal, “*Resource Constrained Multi-Project Scheduling Using Priority Rules: Application in the Deep-Water Construction Industry*” International Conference on Industrial Engineering and Operations Management, Dubai, UAE, pp.353-363, **2020**.
- **Aly Owida**, PJ Byrne, Cathal Heavey, Paul Blake, and Khaled S. El-Kilany, “*A simulation based continuous improvement approach for manufacturing based field repair service contracting*” International Journal of Production Research, 54(21), pp.6458-6477, **2016**.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, “*Evaluating the Impact of Introducing RFID Technology in Manufacturing Systems Using Simulation*” 41st International Conference on Computers and Industrial Engineering, Los Angeles, California, USA, pp.211-216, **2011**.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, “*Analytical Hierarchy Process for Selection of RFID System: An Application in Retail Supply Chains*” 20th International Flexible Automation and Intelligent Manufacturing Conference, California State University, East Bay, USA, pp.496-503, **2010**.

SUPERVISION OF UNDERGRADUATE AND POSTGRADUATE STUDENTS

Ongoing M.Sc. Supervision

- Business Process Simulation in Healthcare Systems, M.Sc. Thesis; Expected **2022**.
- Resource-Constrained Multi-Project Scheduling Problem in the Deep Water Construction Industry, M.Sc. Thesis; Expected **2021**.

Supervision of B.Sc. Final Year Projects

- Waste Reduction in Food Processing. Industry Partner: Unilever; **2021**
- Facility Layout; **2020**.
- Sustainable Food Processing. Industry Partner: Unilever; **2019**.

INTERNATIONAL PROJECTS

- Post-Brexit Implications on Irish Freight, Transport and Logistics Industry, Oct **2019** – Jun **2020**.
- Blended Entrepreneurial and Manufacturing Technology (BEMT) Co-founded by Erasmus+ Programme of the European Union. Developed and delivered training courses for project candidates, **2018**.

AWARDS, SCHOLARSHIPS AND ACADEMIC RECOGNITION

- College Recognition Award **2019**, for earning PhD and for Assistant Professor Promotion.
- PhD Scholars Bursary **2018**, as a PhD candidate at University of Limerick.
- College Scientific Research Award **2017**, for publishing an article in a high-ranked journal.
- College Incentive Award **2011**, for being awarded a research grant to use “ExtendSim OR.”
- Research Grant Award **2010**, to use “ExtendSim OR” to model and analyze the implementation of RFID technology in the furniture manufacturing industry for a Master’s degree in industrial and management engineering at AASTMT.
- Scholarship **2009**, for the fall semester in the academic year 2009-2010 M.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2007**, for the fall semester in the academic year 2006-2007 B.Sc., from the Department of Industrial and Management Engineering.
- Scholarship **2004**, for the fall semester in the academic year 2004-2005 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2004**, for the spring semester in the academic year 2003-2004 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2004**, for the fall semester in the academic year 2003-2004 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2003**, for the spring semester in the academic year 2002-2003 B.Sc., from the Department of Industrial and Management Engineering.

PROFESSIONAL SOCIETIES MEMBERSHIP

- Member of the AASTMT Alumni.
- Member of the Syndicate of Egyptian Engineers in Alexandria.
- Member of the Institute of Industrial and Systems Engineers (IISE).
- Member of Institute of Operations Research and the Management Sciences (INFORMS).
- Academic Member of the Athens Institute for Education and Research (ATINER).

PROFESSIONAL TRAININGS, CERTIFICATES AND EVENTS ATTENDED

- “Re-Thinking Student Assessment in Online Learning” by Center for Learning Innovations and Customized Knowledge Solutions – **2020**
- “Designing for Online Learning” by Center for Learning Innovations and Customized Knowledge Solutions – **2020**

- “Using Moodle” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2020**
- “Programming Python Training Course” by CISCO Academy – **2019**
- “Writing Research Papers” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2019**
- “Effective Presentation Skills” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2019**
- “Communicating Science and Academic Research” by Deutscher Akademischer Austauschdienst (DAAD) – **2014**
- “International Publishing of Scientific Research” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2013**
- “Educational Preparation Course” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2010**
- “Project Management using Primavera” by Production Engineering Special Unit, Faculty of Engineering, Alexandria University – **2008**
- “MANAGING TIME” by International Finance Corporation (IFC) and EAAC Training Group – **2006**
- “the 4 Wheels” by Association of Management Advisors (AMA) – **2006**

NON-ACADEMIC ACTIVITIES AND VOLUNTEER EXPERIENCE

- Member in the Local Organizing Committee of FIFA U-20 World Cup – Egypt **2009**
- Participant in the 2nd Arab Youth Conference, Amman – Jordan **2006**
- Member in the Local Organizing Committee of Africa Cup of Nations – Egypt **2006**
- Member in different charity organizations between **2005** and **2008**
- Joined 6 internships and practical trainings among local and multinational companies between **2005** and **2007**.
- Participant in various charity events such as Blood Donation Campaigns, Medical Campaigns, the annual “Orphan’s Day”, among many others.

REFERENCES

Prof. Aziz Ezzat El-Sayed, Vice President for Education and Quality Assurance,
Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt

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Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt

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Prof. Cathal Heavey, Professor, Department of Design and Manufacturing Technology, School of Engineering, Faculty of Science and Engineering, University of Limerick, Limerick, Ireland

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Prof. PJ Byrne, Professor, Department of Management, Business School, Dublin City University, Dublin, Ireland

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