Resume & References

Raid Al-Aomar, PhD
Professor of Industrial Engineering
Department of Industrial Engineering
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https://scholar.google.com/citations?user=ZhKnMfwAAAAJ&hl=en&oi=ao

Education:

Ph.D. Industrial Engineering/ Operations Research:
Wayne State Univ., USA, 2000
Dissertation: A Process-oriented System Design Methodology with Genetic Algorithm Search and Simulation-based Evaluation.

M.Sc. Industrial Engineering/ Manufacturing Systems:
Wayne State Univ., USA, 1996

B.Sc. Industrial Engineering: Univ. of Jordan, Amman, 1993

Research & Teaching Interests:

- Operations Research & Management
- Simulation Modeling & Simulation-based Optimization
- Lean Six Sigma Systems
- Production Controls and Economics
- Logistics & Supply Chain Management
- Green Technology & Sustainable Engineering
- Risk Management & Financial Analysis
- Quality Control, Assurance, and TQM systems
- Project Management, Construction and Contract Management

Highlights:

- Awards and Appreciations:
  - Awarded ADU distinguished **Research Award** for 2013.
  - Awarded **ADU distinguished faculty award** for 2012.
  - Awarded College of Engineering **distinguished research award** for academic year 2011/2012.
  - Awarded **King-Hussein Prestigious Medal for Academic Excellence** for 2004.
  - Awarded Jordan Ministry of Higher Education & Research **award for best applied engineering research 2004**.

- Director of **Master of Engineering Management (MEM)** program at Abu Dhabi University for 8 years.
- **Visiting associate professor** of IE at University of Sharjah, 2008-2010.
- **Chairman** of Industrial Engineering (IE) at Jordan University of Science & Technology (JUST) from 2006 to 2008.
- JUST university **Quality Assurance Liaison Officer** and Committee director for developing IE course plan and **ABET accreditation**.
- Adjunct faculty at Industrial Manufacturing and System Engineering (IMSE) at **University of Michigan-Dearborn.**
- Adjunct faculty at Management Information System (MIS) of the business school at **Wayne State Univ.**
- Visiting professor for developing and teaching Operations Research applications in Procurement and Logistics at **Vaxjo University in Sweden**.
- Expert in teaching Operations Research and Mgt., Supply Chain Mgt., Statistics, Simulation Modeling, Lean Systems, and Six Sigma.
- Author of more than **50 refereed journal and conference papers** in the field of Industrial Engineering.
- **Author**: "Simulation-based Lean Six Sigma and Design for Six Sigma". **John Wiley** 2006.
- **Reviewer** for several IE and Engineering Management journals and conferences.
- **Local and International consultant** and professional trainer.
- More than 10 years of **professional and industry experience** in Jordan and USA with Ford Motor Company in Dearborn, Michigan.
- Facilitated many **local and regional workshops** on project management, Six Sigma, Production planning, inventory control, and data analysis.
- **Member** IIE, SME, and JAE.
- Listed in**: Madison Who-is-who and in Who-is-who in Engineering**
- **Citizenship**: USA and Jordan.

1. Academic Experience

A- Education:

Ph.D. Industrial Engineering/OR: Wayne State Univ., USA, 2000
Dissertation: A Process-oriented System Design Methodology with Genetic Algorithm Search and Simulation-based Evaluation.
M.Sc. Manufacturing Systems Engineering, Wayne State Univ., USA, 1996
B.Sc. Industrial Engineering, Univ. of Jordan, Amman, 1993

B- Academic positions & ranks:

Professor of Industrial Engineering, Department of Industrial Engineering, German Jordanian University, Jordan. 2018-present

Professor of Industrial Engineering & Director of Engineering Management: College of Engineering, Abu Dhabi University, UAE. 2013-2018

Associate Professor of Industrial Engineering: College of Engineering, Abu Dhabi University, UAE. 2010-2013

Visiting Academic at the department of Industrial Engineering & Management: University of Sharjah, UAE
Teaching Production Planning, Simulation, Work Measurements, Ergonomics, Supply Chain Management. 2008-2010

Adjunct faculty in Civil Engineering Department: American University of Sharjah, teaching Constriction Management, Contract Management, Estimation, Scheduling, and Control. 2008-2010

Associate Professor and Chairman of Industrial Engineering: Jordan University of Science & Technology, Jordan. 2006-2008
Teaching and administrative work including ABET accreditation.

Assistant Professor of Industrial Engineering: Jordan University of Science & Technology, Jordan 2002-2006
Teaching Operations research, Operations Management, Simulation, Work Measurements, and Lean Manufacturing.

Adjunct Faculty: Industrial & Manufacturing Systems Eng. (IMSE) Dept. University of Michigan-Dearborn, USA. 2006-2007
Teaching IMSE 317 Probability and Statistics for Engineers.

Adjunct Faculty: Industrial & Manufacturing Eng. (IME). Wayne State University-Detroit, USA. Teaching IME 850 Sustainable Mfg. 2004-2005

Faculty Member: University of Phoenix, Detroit. 2000-2002
Teaching IT basics, Software Engineering, and Programming Concepts.

Graduate Teaching Assistant: Industrial Eng. Department, Wayne State University, USA. 1995-1997

C- Teaching Responsibilities

List of developed and taught courses:

ID/Number	Name/Topic	Level	Type
Abu Dhabi University			
CIV 402	Engineering Ethics	Bachelor	Core
MEM 504	Quality Engineering	Master	Core
MEM 501	Project Management	Master	Core
MEM 511	Operations & Supply Chains	Master	Core
MEM 502	Engineering Economics	Master	Core
MEM510	Innovation & Entrepreneurship	Master	Elective
University of Sharjah			
IEM341	Work Improvement methods	Bachelor	Core
IEM433	Supply Chain Methods	Bachelor	Core
IEM324	Stochastic Systems Simulation	Bachelor	Core
IEM431	Production Systems	Bachelor	Core
American University of Sharjah			
NGN111	Intro to Statistical Analysis	Bachelor	Core
Jordan University of Science & Technology			
IE 750	Advanced Operations Research	Master	Core
IE 747	Lean & Agile Manufacturing	Master	Elective
IE 541	Production Planning & Inventory	Bachelor	Core
IE 442	Operations Research II	Bachelor	Core
IE 341	Engineering Economy	Bachelor	Core
IE 443	Work Measurement & Analysis	Bachelor	Core
IE 542	Simulation	Bachelor	Core
IE 543	Facilities Planning	Bachelor	Elective
IE 460	Industrial Safety	Bachelor	Elective
University of Michigan-Dearborn			
IMSE 317	Prob. and Stat for Engineers	Bachelor	Core
Wayne State University			
IME 850	Sustainable Manufacturing	Master	Elective

Sample of IE Labs:

ID/Number	Name/Topic	Level	Type
IE 447	Human Factors (Ergonomics)	Bachelor	Core
IEM 341	Simulation Lab	Bachelor	Core
IE 356	Materials Engineering Lab	Bachelor	Core

D- Supervision of PhD and Master Thesis:

i. **External examiner**: PhD Thesis of Mohammad Hamdan, College of Education, Oakland University, Michigan, USA.
ii. **External examiner**: PhD Thesis of Co-supervisor Dr. Nishat Faisal, Industrial Engineering, Indian University.
iii. **External Examiner**: Master thesis of Sadeque Hamdan. Green Supplier selection and order allocation. Industrial Engineering, University of Sharjah, UAE.
iv. ***Adopting Lean Manufacturing Techniques in Sewing Industry***. MS Thesis of Mohammed Obaidat.
v. ***Safety Function Deployment: An approach and a case study.*** MS Thesis of Hazem Momani.
vi. ***Operation and Maintenance Procedure of Steam Generator***. MS Thesis of Ehab Nasrawi.
vii. ***Simulation-based Supply Management optimization with Simulated Annealing***. MS Thesis of Anas Manna.

E- Measures of Teaching Effectiveness

- From Students:

Over the last 10 years, I had the chance to teach students full time and as an adjunct faculty in several universities in Jordan, UAE, and USA. My average students' evaluation score was about 90% in total and at ADU, my average was around 4.5/5.0. The following is a summary of my teaching contributions and students' evaluation for the last two academic years at ADU:

Undergraduate	
Teaching CIV402 AD Spring 2010/2011 **SET = 4.3/5.0**	• Developing the material and teaching CIV402 lectures and presentations
Graduate (Masters, Ph.D.)	
Teaching MEM504 AD Fall 2010/2011 **SET = 4.3/5.0 (average for the term)**	• Development and teaching of new course
Teaching MEM504 AA Spring 2010/2011 **SET = 3.4/5.0**	• Lectures, projects, and group discussions
Teaching MEM501 AD Spring 2010/2011 **SET = 4.1/5.0**	• Development and teaching of new course
Teaching MEM501 AA Spring 2010/2011 **SET = 4.6/5.0**	• Development and teaching of new course
Spring 2010/2011 Average SET = 4.1/5.0	

Teaching MEM504 AD Fall 2011/2012 **SET = 4.7/5.0**	• Lectures, projects, and group discussions
Teaching MEM511 AD Fall 2011/2012 **SET = 4.7/5.0**	• Development and teaching of new course
Fall 2011/2012 Average SET = 4.7/5.0	
Teaching MEM510 AA/AD Winter 2011/2012 **SET = 4.7/5.0 (average for the term)**	• Development and teaching of new course
Teaching MEM504 AA Spring 2011/2012 **SET = 4.7/5.0**	• Lectures, projects, and group discussions
Teaching MEM501 AA Spring 2011/2012 **SET = 4.7/5.0**	• Lectures, projects, and group discussions
Teaching MEM511 Spring 2011/2012 **AD SET = 4.7/5.0 and AA 3.6/5.0 (VC)**	• Lectures, projects, and group discussions
Spring 2011/2012 Averages SET = 4.5/5.0	

- JUST courses:

Course Name & Number	Times taught	Average Enrolment	Average Score
B.Sc Courses:			
IE 442 Operations Research II	8	35	87.8 %
IE 541 Production Planning & Inventory Control	6	35	88.7 %
IE 341 Engineering Economy	2	40	93.8 %
IE 443 Work Measurement & Analysis	2	40	89.3 %
IE 542 Simulation	1	25	82.4 %
IE 543 Facilities Planning	1	25	88.4 %
IE 460 Industrial Safety	1	25	92.6 %
M.Sc Courses:			
IE 750 Advanced OR	3	10	93.3 %
IE 747 Lean & Agile Manufacturing	2	10	87.1 %

From Colleagues and Others Academic Institutions:

- Invited to give seminars on OR applications to procurement and logistics by Vaxjo University in Sweden (September, 2005)
- Mentoring University of Michigan – Dearborn online program in Engineering Management
- Invited for teaching probability & statistics in the department of Industrial & Manufacturing System Engineering (IMSE) at the University of Michigan – Dearborn, Summer 2006 and 2007.
- Invited to teach CAD/CAM at Yarmouk University (2004).

2- PUPLICATIONS

A- Refereed Journal Publications:

1. Al-Aomar, R. and Dweekat, A. (2021). A simulation-based performance assessment of IoT-enabled supply chain of perishable dairy products. Accepted for publication in **European Journal of Industrial Engineering**.
2. Al-Aomar, R. and Alshraideh, H. (2019). A service-oriented material management model with green options. **Journal of Cleaner Production**, 236, 117557.
3. Hussain, M., Al-Aomar, R. and Melhem, H. (2019). Assessment of lean-green practices on the sustainable performance of hotel supply chains. **International Journal of Contemporary Hospitality Management**, 31(6), pp. 2448-2467
4. Al-Aomar, R. and Chaudhry, S. (2018). Simulation-based Six Sigma Value Function for System-level Performance Assessment and Improvement. **International Journal of Productivity and Performance Management**, 67 (1), pp. 66-84.
5. Al-Aomar, R. and Hussain, M. (2018). Exploration and Prioritization of Lean Techniques in a Hotel Supply Chain. **International Journal of Lean Six Sigma**. 10(1), pp. 375-396.
6. Al-Aomar, R. and Hussain, M. (2018). An Assessment of Adopting Lean Techniques in the Construct of Hotel Supply Chain. **Tourism Management**, 69, pp. 553-565.
7. Hussain, M. and Al-Aomar, R. (2017). A model for assessing the impact of sustainable supplier selection on the performance of service supply chains. **International Journal of Sustainable Engineering**, pp. 1-16.
8. Al-Aomar, R. and Hussain, M. (2017). An Assessment of Green Practices in a Hotel Supply Chain: A Study of UAE Hotels. **Journal of Hospitality & Tourism Management**, 32, pp. 71-81.
9. Al-Aomar, R., Aamir Al-Saberi, Mohammed Al-Ameri, Ahmad Al-Wahedi and Kelechukwu, Eke (2017). Six Sigma Application to Food and Beverage Testing Services. **Journal of Engineering and Applied Sciences**, 12(4), pp. 819-824.
10. Ewijk, A.V. and Al-Aomar, R. (2016). Inspiration, self-awareness and entrepreneurial intentions: a mixed-methods case study of postgraduate engineering students in the UAE. **Journal of Entrepreneurship Education (JEE**), 19(1), pp. 103-126.
11. Hussain, M., Khan, M., Al-Aomar, R. (2016). A framework for supply chain sustainability in service industry with confirmatory factor analysis. **Renewable & Sustainable Energy Reviews,** Vol. 55, pp. 1301-1312.
12. Obeidat, M.S., Al-Aomar, R., and Pei, Z.J. (2014). Lean Manufacturing Implementation in Sewing Industry. **Journal of Enterprise Transformation**, 4(2), pp. 151-171, doi: 10.1080/19488289.2014.890980.
13. Al-Aomar, R., Al-Dhanhani, J., Al-Ali, S. (2013). An enhanced QFD approach for improving water tanks sustainability at a local water distributor. **Journal of Industrial Engineering & Management**, 2(113), doi:10.4172/2169-0316.1000113.
14. Alrefaei, M., Diabat, A., Alawneh, A., Al-Aomar, R., & Faisal, M. (2013). Simulated Annealing for Multi Objective Stochastic Optimization. **International**

Journal of Science and Applied Information Technology (IJSAIT), 2(2), pp. 18-21.
15. Al-Aomar, R. (2012). Analysis of Lean Construction Practices in Abu Dhabi Construction Industry. **Lean Construction Journal**. pp. 105-121.
16. Al-Aomar, R. (2012). A lean Construction Framework with Six Sigma Rating. **International Journal of Lean Six Sigma**. 3(4), pp. 299-314.
17. Al-Joburi, K., Al-Aomar, R., Bahri, M.E. (2012). Analyzing the impact of negative cash flow on construction performance in the Dubai area. **ASCE Journal of Management in Engineering**. 28(4), pp. 382-390.
18. Al-Aomar, R., El-Khasawneh B., Obaidat, S. (2012). Incorporating time standards into generative CAPP: A construction steel case study. **Journal of Manufacturing Technology Management**. 24(1), pp. 95 – 112.
19. Al-Aomar, R. and Awad, M. (2012). Dynamic Process Modeling of Patients' No-show Rates and Overbooking Strategies in Healthcare Clinics. ***Int'l Journal of Engineering Management and Economics***. 3(1&2), pp. 3-21.
20. Al-Aomar, R. and Al-Meer, H. (2012). Quality Function Deployment for Service: A Case Study of Enhancing the Planning Statement of a Utility Company. **International Journal of Advanced Trends in Computer Science and Engineering**, 1(4), pp. 113-120.
21. Al-Aomar, R. (2011). Handling Multi-Lean Measures with Simulation and Simulated Annealing. ***Journal of the Franklin Institute***. 348 (7), pp. 1506-1522.
22. Alsyouf, I., Al-Aomar, R., Al-Hamed, H. and Xiaojin, Q. (2011). A model for assessing the cost effectiveness of lean tools. ***European Journal of Industrial Engineering***. 5(2), pp. 170-197.
23. Obeidat M. and Al-Aomar, R. (2011). Adopting lean techniques in textile industry: A Sewing plant case study. ***AHU Journal of Engineering & Applied Sciences***, 4(1), pp. 33-53.
24. Al-Aomar, R. (2010). An AHP-Entropy method for deriving quantitative and qualitative criteria weights. ***International Journal of Industrial Engineering: Theory, Applications, & Practice***. 17(1), 12-24.
25. Bataineh, O. and Al-Aomar, R. (2010). *Simulation-optimization of public office operations*. **Jordanian Journal of Mechanical and Industrial Engineering**, 4(3), pp. 346-351.
26. Al-Aomar, R. and Fikri Dweiri (2008). A customer-oriented decision agent for product selection in web-based services. ***International Journal of Information Technology & Decision Making***. 7(1), 35-52.
27. Al-Aomar, R. (2007). Analysis of non-stop traffic at isolated intersections with the means of Discrete Event Simulation. ***International journal of Simulation Modeling***. 6(4), pp. 230-241.
28. Al-Aomar, R. (2006). Designing machine operating strategy with simulated annealing and Monte Carlo simulation. **Intl. *Journal of the Franklin Institute*,** 343(4-5), pp. 372-388.
29. Al-Aomar, R. and Ala'a Al-Okaily (2006). GA-based parameter design for single machine turning process with high-volume production. ***International Journal of Computers & Industrial Engineering***, 50(3), pp. 317-337.
30. Al-Aomar, R. (2006). A simulation-based DFSS for a lean service system. ***International Journal of Product Development***, 3(3/4), pp. 349-368.

31. Al-Aomar, R. (2006). Capacity-constrained scheduling of multiple vehicle programs in pilot plants. ***International Journal of Production Research***, 44(13), pp. 2573-2604.
32. Al-Aomar, R. and M. Youssef (2006). Achieving Six Sigma rating in a system simulation model. ***International Journal of Six Sigma & Competitive Advantage***, 2(2), pp. 190-206.
33. Al-Aomar, R. (2006). Incorporating robustness into Genetic Algorithm search of stochastic simulation outputs. ***Simulation Practice & Theory***, 14(3), pp. 201-223.
34. Al-Aomar, R. (2003). A simulation methodology for determining system and process-level manufacturing performance metrics. *SAE 2002* ***Transactions Journal of Materials & Manufacturing***, 111(5), pp. 1043-1050.
35. Al-Aomar, R. and M. Philips (2002). Determining FPS Measurables in Vehicle's Final Assembly Operations with DES. ***Ford Technical Journal***, 5(1).

Latest Submitted Journal Publications:

1. Analysis of lean and green sustainability practices in the supply chain of AD hotels Industry. To be submitted to the **Journal of Cleaner Production**.
2. Applying Six Sigma to improve the food and beverages testing services. Submitted to **Advanced Science Letters**.

Work in Progress:

3. Modeling and optimizing the supply chain of a large steel producer. This paper is derived from the ongoing project supported by QNRF.
4. Analysis of green construction practices in Abu Dhabi construction industry. This paper will be based on the results of research seed project supported by ADU.

B- Refereed Conference Publications:

1. Al-Aomar, R., Alshwailat, A., Alfarraj, A., and Odeh, T. (2020). Simulation-Aided Lean Application to an Automated Production Line. Proceedings of the **5th NA International Conference on Industrial Engineering and Operations Management (IEOM)**, Detroit, Michigan, USA, pp. 1641-1652.
2. Al-Aomar, R. and Hussain, M. (2020). Circular Supply Chains: A Comparative Study of Structure and Practices. **1st International Conference on Mechanical, Aeronautical, and Industrial Engineering Technologies (MechaniTek 2020),** Irbid, Jordan, 1(1), pp. 61-68.
3. Al-Aomar, R. (2019). Sustainability Function Deployment: System-level Design for Sustainability. **2019 IEEE International Systems Conference (SysCon)**, Florida, USA, pp. 1-6.
4. Al-Aomar, R., Al-Hamed, A., Khalifeh, R., and Hasan, F. (2018). Lean Six Sigma Application to Improve a Water Bottling Process. **IEEE Explore**, Proceedings of the **2018 IEEE International Conference on Technology**

Management, Operations and Decisions (ICTMOD), Marrakesh, Morocco, pp. 200-205.

5. Al-Aomar, R. and Hussain, M. (2017). A Cost-based Material Management Model for a Sustainable Hotel Supply Chain. **Proceedings of the 2017 Institute of Industrial and Systems Engineering Conference (IISE 2017)***, K. Coperich, E. Cudney, H. Nembhard, eds*, Pittsburgh, USA, pp. 374-379.
6. Dweekat, A. and Al-Aomar, R. (2018). 'An IoT-Enabled Framework for Dynamic Supply Chain Performance Management. Accepted for publication in the **IEEE conference (**TEMSCON 2018**).** Chicago, US.
7. Al-Aomar, R., Al-Mansouri, A., and Al-Laban, M. (2017). Reducing the Interruptions of Power Distribution: A Six Sigma Case Study. **IEEE Explore**, Proceedings of the **2nd International Conference on Knowledge Engineering and Application (ICKEA 2017).** London, UK, pp. 226-230.
8. Al-Aomar, R., Aljeneibi, S., and Almazroui, S. (2016). Reducing Operational Downtime in Service Processes: A Six Sigma Case Study. Proceedings of the **International Conference on Industrial Engineering, Management Science and Application (ICIMSA 2016). IEEE Explore**, pp. 1-5.
9. Al-Aomar, R. and Hussain, M. (2015). Waste analysis and categorization in the construct of hotels supply chain. Proceedings of the **International Conference on Energy, Environment, and Material Science**, Agios Nikolaos, Crete, Greece, pp. 11-15.
10. Al-Aomar, R. and Hussain, M. (2015). An assessment plan for lean and green sustainability practices in the supply chain of hotels. 'Sustainable Development' Conference Proceedings, **WIT Transactions on the Built Environment**, Vol. 168, pp. 41-50.
11. Al-Aomar R. and Shaban R. (2015). Promoting Technology Innovation in Abu Dhabi through Technopreneur Program. In Proceedings of the **Innovation Arabia 8 Annual Conference: Business & Quality Management**, Dubai, UAE, pp. 361-369.
12. Al-Aomar R. and Al-Bakri G. (2014). A system approach for developing a systems engineering postgraduate program. In Proceedings of the **1st International Conference on Industrial, Systems, & Manufacturing Engineering**, Amman, Jordan.
13. Al-Aomar R. and Alrefaei M. (2014). Simulation-based Optimization of Multiple Supply Chain KPIs. In Proceedings of the **Annual Conference on Engineering & Technology**, Osaka, Japan.
14. Al-Aomar R., Alrefaei M., Diabat A., Faisal M., and Alawneh A. (2014). Using Simulation to Assess the Performance of a Large-Scale Steel Producer. In Proceedings of the **2014 International Conference on Mathematical Methods, Mathematical Models and Simulation in Science and Engineering**, Interlaken, Switzerland, pp. 156-160.
15. Al-Kuwaity, Y. and Al-Aomar, R. (2014). Improving hospital services with Quality Function Deployment. Proceedings of the **7th Quality Conference in the Middle East**, pp. 328-339, Dubai, UAE.
16. Al-Aomar, R. (2013). QFD application in the initial accreditation of an engineering program. Proceedings of **the 2013 IEEE Global Engineering Education Conference (EDUCON 2013)**, pp. 38-43. Berlin, Germany.
17. Faisal, M., Alrefaei, M., Alawneh, A., Al-Aomar, R., & Diabat, A. (2013). Supply Chain Performance Improvement by Integrating Sustainability in Supplier

Selection for a Steel Producer. 3rd **International Conference on Production & Industrial Engineering (CPIE-2013),** pp. 586-591.

18. Diabat A., Al-Aomar R., Alrefaei M., Alawneh A. and Faisal M. (2013). A Framework for Optimizing the Supply Chain Performance of a Steel Producer. In Proceedings of the **15th International Conference on Enterprise Information Systems**, pp. 554-562.
19. Al-Aomar, R. and Weriakat, D. (2012). A Framework for a Green and Lean Supply Chain: A Construction Project Application. Proceedings of **the 2012 International Conference on Industrial Engineering & Operations Management (IEOM 2012)**, pp. 289-299. Istanbul, Turkey.
20. Obeidat, M.S., Pie, Z.J., and Al-Aomar, R. (2012). Implementing Lean Manufacturing in Sewing Industry. Proceedings of **the IIE Industrial & System Engineering Research Conference** (ISERC 2012), Florida, USA.
21. Al-Aomar, R. (2012). A Lean Construction Framework with Six Sigma Rating: A Case Study at Abu Dhabi Construction Industry. Proceedings of **the 4th International Conference on Lean Six Sigma**, pp. 6-20. Glasgow, UK.
22. Al-Aomar, R. (2012). A Six Sigma Value Function for Improving Multiple Quality Attributes. Proceedings of the **6th Quality Conference in the Middle East** (*Best Paper Award*), pp. 328-339, Dubai, UAE.
23. Al-Meer, H. and Al-Aomar, R. (2012). Applying QFD to enhance the Planning Statement of a Utility Company. Proceedings of **the 1st ADU Research Conference**, Abu Dhabi, UAE.
24. Al-Aomar, R. (2011). Applying 5S Lean Technology: An Infrastructure for Continuous Process Improvement. Proceedings of the I**nternational Conference of Industrial & Information Engineering**, WASET 2011, pp. 2014-2019. Venice, Italy.
25. Al-Aomar, R. and Almakhzumi, M. (2011). A Six Sigma Approach for Reducing Non-Sellable Man-Hour Costs. Proceedings of **the IIE Engineering & Lean Six Sigma Conference** (ELSS 2011), Atlanta, USA.
26. Al-Aomar, R. and Adnan, R. (2010). Simulation-based Demand Management with non-instantaneous inventory replenishment. Proceedings of **the 22nd European Modeling and Simulation Symposium** (EMSS 2010), pp. 395-401. Fes, Morocco.
27. Al-Aomar, R. (2010). A Quantifiable Quality Assurance System for Engineering Courses. Proceedings of **the 5th International Forum on Engineering Education** (IFEE 2010), University of Sharjah, UAE.
28. Al-Aomar, R. and Awad, M. (2010). Dynamic Process Modeling of Overbooking Strategy in Healthcare Clinics. Proceedings of **the 2nd International Conference on Engineering Systems Management & Its Applications** (ICESMA 2010), American University of Sharjah, UAE.
29. Al-Aomar, R. and Momani, A. (2009). A Dynamic Process Modeling of Warehouse Operations. Proceedings of **the 21st European Modeling and Simulation Symposium** (EMSS 2009), pp. 54-59. Spain.
30. Al-Aomar, R. (2007). Simulation-based Lean Six Sigma: A Platform for Boosting Production System Effectiveness. **The 37th International Conference of Computers and Industrial Engineering**. pp 1803-1813, Alexandria, Egypt.
31. Dweiri, F., Al-Aomar, R., Al-Momani, H. (2007). Safety Function Deployment: An Approach for Developing Safety Product and Safety Management System.

The 37th International Conference of Computers and Industrial Engineering. pp 1714-1725, Alexandria, Egypt.

32. Al-Aomar, R., Al-Momani, K., and Nasrawi, E. (2007). Improving the Efficiency of a Steam-Generators System through an Effective Operation and Maintenance Plan. **International conference on Maintenance Management Systems**, Amman-Jordan.
33. Al-Aomar, R. and Fikri Dweiri (2005). A Customer-based Multi-Criteria Decision Support System for Product Selection in Online Orders. ***The 35th International Conference of Computers & Industrial Engineering***, Istanbul, Turkey.
34. Al-Aomar, R. (2003). A Simulation-supported ERP: An enterprise-wide training model. ***EISTA'03 Conference***, Orlando, Florida, USA.
35. Al-Aomar, R. (2002). A robust multi-criteria simulation-based optimization method. Proceedings of ***Winter Simulation Conference***, San Diego, CA, USA.
36. Al-Aomar, R. (2000). Model-Mix Analyses with DES. Proceedings of ***Winter Simulation Conference***, Orlando, Florida, USA.
37. Al-Aomar, R. A. 2000. GA-SM: An Interactive Simulation Optimization Software Tool. *Proceedings of the 2nd Middle East* ***Symposium on Simulation and Modeling***, Amman-Jordan.
38. Al-Aomar, R. and Dan Cook (1998). Modeling at the Machine Control Level with DES. Proceedings of ***Winter Simulation Conference***, Washington D. C., USA.

***C- Books*:**

- Simulation-based Lean Six Sigma and Design for Six Sigma, **John Wiley***,* New York, 2006.
- Process Simulation using WITNESS, **John Wiley**, New York, 2015.

***D- Book Chapters*:**

- Raid Al-Aomar (2010). Simulating Service Systems, Discrete Event Simulations, Aitor Goti (Ed.), ISBN: 978-953-307-115-2, Sciyo.
- Raid Al-Aomar (2012). A Quantifiable Quality Assurance System for Engineering Courses, Engineering Education in the 21st Century, edited book of IFEE.

E- IE Magazine:

Al-Aomar, Raid (2007). **The Prestigious Three:** Simulation, Lean, & Six Sigma for business process management. December Issue of IE Magazine. **IIE 2007**.

Funded Research Projects

No.	Title of the project	Granted by	Amount
1	Developing a mathematical optimization model for an effective service supply chain	Abu Dhabi University 2016	AED20,000
2	Analyzing Lean Practices at the Supply Chain of Hotel Industry	Abu Dhabi University 2015	AED20,000
3	Supply Chain optimization for a Steel Producer	Qatar National Research Fund (QNRF) 5th cycle	$300,000
4	Analyzing Lean Construction Practices at Abu Dhabi Industry	Abu Dhabi University 2011	AED50,000
5	Developing interactive GA-SM software tool for multi-criteria optimization (2002)	Jordan University of Science and Technology	1,200 JD
6	Work Analysis & Efficiency Improvement at Steel Building Company (2005)	Jordan Higher Council for Science & Technology	5,000 JD
7	Preparing Irbid Specialty Hospital for ISO 90001:2000 (2004)	EJADA- European Program	5,000 JD
8	Production Process Streamlining and Quality Assurance at Maani Furniture Company (2006)	Higher Council for Science & Technology	5,000 JD
9	Process Definition and Work Flow Analysis at Maani Prefab Company	Faculty For Factory Program (2007)	3,000 JD
10	Quality of Technical Education in Jordan- (Sweden & Spain) (2006)	TEMPUS- European Program	140,000 EU
11	Production planning at Ford supplier (DANA corp. CANADA)	FORD, MI, USA (2003)	$10,000
12	Pilot plant capacity planning	FORD, MI, USA (2004)	$10,000
13	Supplier capacity planning	FORD, MI, USA (2005)	$10,000
14	Simulating future car programs	FORD, MI, USA (2006)	$10,000

3- Professional/Industry Experience:

I base my teaching and research on a well-established professional and industry experience that extends over 10 years in Jordan and USA. This is a summary of my professional experience:

A- Industry Experience:

Consultant on Simulation and Lean Six Sigma Systems
Production Modeling Corporation, Dearborn, MI, USA. 2002-2008
(Summer time consultation projects in the industry)
Part time simulation expert for Ford projects and international business development for scheduling, simulation, and Lean Six Sigma.

Simulation Specialist (*contract*):
Ford Motor Company- Vehicle Operations, Dearborn, MI, USA, 1999-2002.
Using State-of-the-art simulation and statistical methods for production optimization studies to apply Ford production Systems at various Ford facilities and vehicle programs (more than 20 projects completed)).

Lead Design Eng (contract):
General Motors (GM)- Metal Fabrication Division, USA, 1998-1999
Modeling and analyzing body shop and subassemblies at various GM facilities and programs (more than 10 projects completed).

Senior Project Engineer:
Classic Advances Developed Systems, Inc. Troy, MI, USA 1996-1998
Leading and training Simulation Analysts on conducting simulation studies, Developing and analyzing Discrete Event Simulation projects for Automotive Industry (GM and Suppliers, more than 50 projects).

Production Engineer:
Jordan Petroleum Refinery, Zerka-Jordan, 1993-1994.
Engineering and managing production operations at LPG cylinders production facility at JPR. This includes Maintenance Planning and running daily operations.

B- Workshops and Seminars:

I attend and participate in teaching related workshops, roundtables and inquiry seminars presented by the university and at national professional meetings. In the recent past, I have attended workshops on critical thinking, methods for teaching large classes, teaching working students, educational technology, class room management, learning styles, learning strategies, and computer-assisted learning. I participate in professional organizations in the field of Industrial Engineering, general engineering, and education. I organize a yearly open industry and alumni day to strengthen industry interaction and

incorporate industry needs in my teaching style. I also keep continuous contact with industry and business professionals through facilitating technical seminars and training workshops nationally and internationally.

Sample training workshops that I instructed for industry:

Workshop	Company/Client	Duration
Process Management	Al-Ain, UAE	3 Days
Warehouse & Inventory Management	Jeddah, KSA	5 Days
Data Mining & Analysis	Riyadh, KSA	5 Days
Basics of Project Management	Intech, Jordan	5 Days
Six Sigma Green Belt Program	ProServ, Jordan	5 Days
Material Requirement Planning (MRP)	Intech, Bahrain	5 Days
Basic Economy & Finance	ERC Jordan	4 Days
Risk Management	CERT, UAE	5 Days
Project Management	CERT, UAE	5 Days
Statistical Data Analysis	Intech, UAE	4 Days
Inventory Control	JUST CSC	3 Days
Total Quality Management (TQM)	Industrial Estate	5 Days
Decision Analysis	Jordan Petroleum	4 Days
Time Management & Effectiveness	Industrial Estate	5 Days
Maintenance Planning & Management	Industrial Estate	4-Days

References:

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