

Wisam M. Abu Jadayil

Associate Professor of Industrial and Mechanical Engineering



Current Address:

College of Engineering
Abu Dhabi University
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Abu Dhabi, UAE
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Mobile: 00971 (56) 1531316

Date and Place of Birth: 11/16/1976 Zarqa-Jordan

Nationality: Jordanian

Material Status: Married with four children

Areas of Interest

Engineering Management, with emphasis on:

Quality and Reliability Engineering
Sustainability
Engineering project management
Lean production and management
Operations and Supply chain and inventory management
Production planning and control
Risk management and root cause analysis

Design and manufacturing materials and processes automation, using:

NC/CNC and DNC machines
Geometric modeling
Computer graphics
Visualization
Simulation
Optimization
Virtual reality
Human-computer interaction
Statistical analysis

Education

Ph.D. Industrial and Mechanical Engineering, December 2005

Iowa State University

Ames, Iowa USA

M.S. Mechanical Engineering/ Applied Mechanics, June 2001

Jordan University of Science and Technology

Irbid, Jordan

B.S. Mechanical Engineering, June 1999

Jordan University of Science and Technology

Irbid, Jordan

Work Experience

Associate Professor

August 2019 - Now

MEM/MPM Programs, College of Engineering

Abu Dhabi University, Abu Dhabi, UAE

Associate Professor

August 2016 - August 2019

Mechanical and Industrial Engineering Department

The American University of Ras Al Khaimah, UAE

Associate Professor and Chairman

September 2014 – August 2016

Master of Engineering Project Management Coordinator

Mechanical and Industrial Engineering Department

The American University of Ras Al Khaimah, UAE

Assistant Professor and Chairman

August 2013 – September 2014

Master of Engineering Project Management Coordinator

Mechanical and Industrial Engineering Department

The American University of Ras Al Khaimah, UAE

The AURAK Accreditation Leadership Committee

August 2014 – December 2018

Campus Educational Accreditation Committee

August 2014 – December 2018

Chairing The School of Engineering ABET Committee

August 2015 – August 2016

The School of Engineering ABET Committee

August 2015 – August 2018

Chairing the School of Engineering Assessment Committee

August 2014 – August 2016

Accreditation Trail-blazers and on-campus accreditation standards evaluator,

which supports quality work in the institution as well as in the discipline **August 2016 – December 2018**

The AURAK Study Plan Committee

August 2015 – August 2018

Initiator of The ABD in Mechanical Engineering Program with UTA

August 2014 American

University of Ras Al Khaimah, UAE

Initiator of The Master of Engineering Project Management Program

August 2013

American University of Ras Al Khaimah, UAE

Initiator of The Mechanical Engineering Program

August 2013

American University of Ras Al Khaimah, UAE

Initiator of The Industrial Engineering Program

August 2013

American University of Ras Al Khaimah, UAE

Assistant Professor

Jan. 2006 – August 2013

Teaching and research developing, The Hashemite University

Dean of engineering assistant for industrial relations

August 2009 – June 2010

College of engineering ABET committee chair

August 2009 – June 2010

Instructor, teaching and research assistant

Teaching and developing manufacturing system, Iowa State University

Jan. 2002 – Jan. 2006

Zarqa Community College-Zarqa, Jordan

June 2001 – Jan. 2002

Jordan University of Science and Technology-Irbid, Jordan

June 1999 – June 2001

Consultant

Working as a consultant for several factories and reputable organizations in the areas of:

- Traditional and Non-Traditional Manufacturing Processes and Techniques
- NC, CNC and DNC Machines
- Automation and Robotics
- Destructive and Non-Destructive Testing of Materials and Processes
- Advanced and Composite Engineering Materials and their Applications
- Design, Development and Fabrication of New Products and Services
- Logistics, Supply Chain and Inventory Management
- Scheduling Maintenance Systems
- Efficiency and Maintenance of Rotating Equipment
- Project Management
- Value Engineering
- Risk Management
- Engineering Safety and Reliability
- Production Planning, Scheduling and Control
- Engineering Standards and Codes

Training Courses, Workshops and Seminars

Many training courses, workshops and seminars have been conducted in the fields of:

- Value Engineering
- Engineering Standards and Codes
- Project Management
- Project Planning
- Project Budgeting
- Project Monitoring and Control
- Engineering Management Principles
- Business Fundamentals for Engineering Managers
- Cost Accounting for Engineering Managers
- Engineers as Managers and Leaders
- Ethics In Engineering/Business Management
- Computer Aided Design and Manufacturing (CAD/CAM)
- Manufacturing Processes and Metal Forming
- Computer Graphics and Geometric Modeling (AutoCAD, MasterCAM, ProEngineering, Solid Edge)
- Computer Numerically Controlled Machines and Direct Numerically Controlled Machines (CNC and DNC) - Instrumentation and Control
- Analytical Instrumentation
- Maintenance Planning and Scheduling
- Preventive Maintenance

- Predictive and Preventive Maintenance
- Total Productive Maintenance
- Reliability Centered Maintenance
- Maintenance of Rotating Equipment
- Productivity Maintenance
- Equipment Inspection
- Manufacturing Materials
- Welding Processes
- Metrology
- Metallurgy
- Machinery Failure Analysis
- Heat Treatment of Steels
- Bearing Lubrication
- Nondestructive Testing Techniques
- Emergency Response Planning
- Management of Teamwork
- Supply Chain Management
- Risk Analysis
- Product Design and Development
- Engineering Safety Management
- Management Skills for Engineers
- Engineering Reliability
- Risk Management

Academic Courses Taught

Undergraduate Level: *(Student Evaluations ranged between 80 and 100%)*

- Computer Aided Design and Manufacturing: Iowa State University
- Geometric Modeling and Computer Graphics: Iowa State University
- Instrumentation and Measurements: Iowa State University
- C Language: Iowa State University
- Numerical Methods for Engineers: The Hashemite University
- Material Properties: The Hashemite University
- Product Design and Development: The Hashemite University
- Metrology: The Hashemite University
- Metallurgy: The Hashemite University
- Nanotechnology and MEMs: The Hashemite University
- Engineering Workshop: The Hashemite University
- Welding and Casting Processes: The Hashemite University
- Metal Cutting Processes: The Hashemite University
- Metal Deformation Processes: The Hashemite University
- Mechanical Behavior of Materials: The Hashemite University
- Manufacturing Materials: The Hashemite University
- Industrial Automation: The Hashemite University
- Industrial Design: The Hashemite University
- Machine Element Design: The Hashemite University
- Engineering Materials: American University of Ras Al Khaimah
- Dynamics: American University of Ras Al Khaimah
- Mechanics of Materials: American University of Ras Al Khaimah
- Manufacturing Processes: American University of Ras Al Khaimah

- Product Design: American University of Ras Al Khaimah
- Industrial Engineering Seminar: American University of Ras Al Khaimah
- Senior Design Project: American University of Ras Al Khaimah
- Metrology: American University of Ras Al Khaimah

Graduate Level: *(Student Evaluations ranged between 92 and 100%)*

- Advanced Material Properties: The Hashemite University
- Nondestructive Testing Techniques: The Hashemite University
- CAD/CAM: Jordan University
- Project Management Fundamentals: American University of Ras Al Khaimah
- Engineering Management: American University of Ras Al Khaimah
- Supply Chain Management for Project Managers: American University of Ras Al Khaimah
- Project Quality Management: American University of Ras Al Khaimah
- Field Application Project: American University of Ras Al Khaimah
- Direct Research: American University of Ras Al Khaimah
- Operations and Supply Chain Management: Abu Dhabi University
- Quality Engineering: Abu Dhabi University
- Advanced Engineering Economics: Abu Dhabi University
- Project Management: Abu Dhabi University
- Project Management Professionalism: Abu Dhabi University
- Systems Engineering: Abu Dhabi University

Honors and Awards

- Torch Peer award for distinguished members, for their significant effort in achieving the SACS COC accreditation in AURAK, 2018.
- Award of Outstanding Contribution in Reviewing, awarded to me in recognition of the review made for the Seed Grant Funding Program 2017-2018 at AURAK.
- The first faculty member to be promoted in The American University of Ras Al Khaimah, in September 2014.
- The Initiator of The Additional Bachelor Degree Program in Mechanical Engineering with The University of Texas Arlington, at The American University of Ras Al Khaimah, in August 2014.
- The Initiator of The Mechanical Engineering Program, The Industrial Engineering Program and The Master of Engineering Project Management Program at The American University of Ras Al Khaimah, in August 2013.
- The Founder of The Mechanical Engineering Department at The American University of Ras Al Khaimah, in August 2013.
- I got a lifetime membership in the Tau Beta Pi organization for distinguished engineers in USA in December 2005.
- I got a lifetime membership in the Phi Kappa Phi organization for distinguished persons in USA in March 2004.
- The Hashemite University scholarship to get the PhD in engineering in 2002.
- I got the Queen Rania Prize for distinguished students, April 2000.
- Jordanian Engineers Association membership since June 1999.
- My rank was the first in my class in the B.Sc. school of engineering at JUST in 1999.
- I had been dignified for four times as one of the best students in the Jordan University of Science and Technology.

Communication Skills

- Arabic: Native Language
- English: Excellent Speaking, Writing and Listening

Computer Software Skills

CAD/CAM Software:

- Pro/Engineering (Creo): Excellent
- Solid Edge: Excellent
- Solid Works: Excellent
- AutoCAD: Very Good
- ABAQUS: Excellent
- ANSYS (Fluent): Basic Level
- Fluent: Basic Level
- CATIA: Basic Level

Other Statistical and Simulation Software:

- Arena: Very good
- Minitab: Excellent
- SPSS: Very good

Practicing Activities

- **Very familiar with higher education accreditation requirements for North American accrediting agencies such as ABET and SACSCOC as well as for Middle Eastern Higher Education accrediting agencies such as the Commission for Academic Accreditation in the UAE and the Arabic Higher Education Accrediting Agency.**
- **I have demonstrated that through service on committees such as:**
 - ✚ **The AURAK Accreditation Leadership Committee**
 - ✚ **Campus Educational Accreditation Committee**
 - ✚ **The School of Engineering ABET Committee**
 - ✚ **Chairing the School of Engineering Assessment Committee**
 - ✚ **Accreditation Trailblazers and on-campus accreditation standards evaluator, which supports quality work in the institution as well as in the discipline**

Research Supervising Activities:

- **Supervising and co-supervising 4 students in their research course work in MEM/MPM programs at Abu Dhabi University.**
- **Supervising more than 50 graduate students in the Master of Engineering Project Management program in their field application projects.**
- **Supervising 4 graduate students in the Master of Engineering Project Management program in their direct research.**
- **Supervising one student in the Master of Nondestructive Testing program.**
- **Appointed as external examiner for MSc and PhD theses developed in universities in Jordan, India and Malaysia.**

Organizing Conferences and workshops:

✚ I organized many workshops at AURAK, like:

- **Workshop on Engineers' Role in Economic Development, held in AURAK, on April 20th, 2016.**
- **Workshop on GIS, in corporation with Municipality of Ras Al Khaimah, held in AURAK, on May 18th, 2016.**
- **AURAK graduate programs information session, held at AURAK on Dec 8, 2014.**

✚ I participated in organizing many conferences organized by AURAK, like:

- The International Conference on Civil and Infrastructure Engineering (ICCIE2018), 13-14 March 2018.
- The International Conference on Electrical and Computing Technologies and Applications, 2017 (ICECTA'2017)
- The 5th International Conference on Electronic Devices, Systems and Applications (ICEDSA-2016)
- The International Workshop on Advanced Materials, held in Ras Al Khaimah, on 22nd -24th of February 2015.

International Journal's Editorial Board:

- **I am the Executive Member (Membership Management) of IFERP UAE Chapter.**
- **Serving as organizer committee member of the 4th International Conference on Applied Sciences, Engineering, Technology and Management (ICASETM 21), held on 29th & 30th December 2021 at Dubai, UAE.**
- **I am serving as editorial member in the following international journals:**
 - Environment and Social Psychology (Since April 2018)
 - Research and Development in Material Science (Since October 2017)
 - International Journal of Industrial and Manufacturing Systems Engineering
- **I am serving as a reviewer in many international journals, like:**
 - Cogent Engineering
 - Cogent Environmental Sciences
 - Cogent Business and Management
 - Industrial Lubrication and Tribology
 - Journal of King Saud University: Engineering Sciences
 - Journal of Industrial Engineering International
 - Tribology Transactions
 - International Social Work
 - Journal of Manufacturing Processes
 - International Journal of Industrial Engineering: Theory, Applications and Practice
 - Energy Management

Current Research Projects

- **Advancements in Renewable Energy Management through Machine Learning: A Comprehensive Review**
- **Green Technologies Applications in Energy and Waste Management and Recycling.**
- **Management of Challenges in Implementing Green Technologies for Military and Ministry of Defense Operations in the UAE to Achieve Sustainability**

Current Research Works

- **Qualitative Study of Carbides in Liquid Phase Sintered M3:2 High Speed Steel.**
- **Communication challenges in multicultural construction projects.**
- **Research Investigation of Critical Success Factors of Engineering Projects in UAE.**

Publications and Conferences:

Published Journal Papers:

1. Khraisat, W. and Abu Jadayil, W. (2024). Qualitative study of carbides in liquid phase sintered M3: 2 high speed steel. *Heliyon* 10 (13), e33925. 1-11. <https://doi.org/10.1016/j.heliyon.2024.e33925>. (Q1)
2. Rahi, K., Abu Baker, F., Preece, C. and Abu Jadayil, W. (2023). Scale to measure project resilience for the construction sector to cope with hazards. *International Journal of Disaster Resilience in the Built Environment*. DOI 10.1108/IJDRBE-04-2023-005.
3. Abu Jadayil, W., Aqil, E. (2023). Building a Deposit–Refund System (DRS) for Closed-Loop Recycling of Water Bottles in the United Arab Emirates. *Recycling* 2023, 8(5), 76; <https://doi.org/10.3390/recycling8050076> (registering DOI). (Q2)
4. Abu Jadayil, W., Qureshi, M., Ajaj, R., Aqil, E. Shawahin, G., Anver, H., Aljeawi, S. (2022). An Empirical Investigation on Plastic Waste Issues and Plastic Disposal Strategies to Protect the Environment: A UAE Perspective. *Sustainability*, 14(24), 16719; <https://doi.org/10.3390/su142416719>. (Q1)
5. Ajaj, R., Abu Jadayil, W., Anver, H. and Aqil, E. (2022). A Revision for the Different Reuses of Polyethylene Terephthalate (PET) Water Bottles. *Sustainability*, 14(8), 4583. <https://doi.org/10.3390/su14084583> (registering DOI). (Q1)
6. Shakoor, M., Qureshi, M., Abu Jadayil, W., Jaber, N. & Al-Nasra, M. (2021). Application of Discrete Event Simulation for Performance Evaluation in Private Healthcare: The Case of a Radiology Department. *International Journal of Health Care Management*, 14(4), 1303–1310. (Q2)
7. Abu Jadayil, W., Khraisat, W. & Shakoor, M. (2020). Statistical analysis for the main factors causing car accidents. *ARNP Journal of Engineering and Applied Sciences*, 15(5), 696-715. (Q2)
8. Abu Jadayil, W., Shakoor, M., Bashir, A., Selmi, H. & Qureshi, M. (2020). Using SERVIQUAL to investigate the quality of provided wireless communication services in UAE. *International Journal of Quality and Service Sciences*, 12(1), 109-132. (Q1)
9. Khraisat, W., Abu Jadayil, W. & Rawashdeh, N. (2019). The Effect of Carbon and Silicon Alloying Additions on the Morphology of Pores and Tensile Characteristics of Sintered Steels. *Metallography, Microstructure, and Analysis*, 8(2), 182-188. (Q2)
10. Abu Jadayil, W. & Serhan, D. (2019). The Effect of Heat-Treatment and Alloying of Ni-Ti Alloy with Copper on Improving its Fatigue Life. *Minerals, Metals and Materials Series: TMS 148th Annual Meeting & Exhibition Supplemental Proceedings*, 413-420. (Q3)
11. Fouad, R., Abu Jadayil, W. & Shakoor, M. (2018). Applying Quality Improvement Tools for a Canning Plant. *ARNP Journal of Engineering and Applied Sciences*, 13(18), 4956-4965. (Q2)
12. Khraisat, W., Abu Jadayil, W., Al-Zain, Y. & Mismar, S. (2018). The effect of rolling direction on the weld structure and mechanical properties of DP 1000 steel. *Cogent Engineering*, 5(1), 1-11. (Q2)
13. Khraisat, W., Abu Jadayil, W., Rawashdeh, N. & Borgstrom, H. (2018). The Role of Phosphorus in Pore Rounding of Sintered Steels. *Cogent Engineering*, 5(1), 1-12. (Q2)

14. Abu Jadayil, W., Abu Jadayil, S., Khraisat, W., Shakoor, M. & Jaber, N. (2017). Creation of Different Cell Layouts Using Part Assignment Process for Manufacturing a Traction Drive Speed Reducer. *International Journal of Modern Manufacturing Technologies*, 9(2), 73-81. (Q2)
15. Shakoor, M., Al-Nasra, M., Abu Jadayil, W., Jaber, N. & Abu Jadayil, S. (2017). Evaluation of provided services at MRI department in a public hospital using discrete event simulation technique: a case study. *Cogent Engineering*, 4(1), 1-11. (Q2)
16. Abu Jadayil, W., Khraisat, W. & Shakoor, M. (2017). Different Strategies to Improve the Production to Reach the Optimum Capacity in Plastic Company. *Cogent Engineering/Production & Manufacturing*, 4(1), 1-18. (Q2)
17. Shakoor, M., Abu Jadayil, W., Jaber, N. & Jaber, S. (2017). Efficiency assessment in emergency department using lean thinking approach. *Jordan Journal of Mechanical and Industrial Engineering*, 11(2), 97-103. (Q2)
18. Shakoor, M., Jaber, N., Qureshi, M., Abu Jadayil, W. & Jaber, S. (2017). A novel model for benchmarking the performance of retail operations using lean manufacturing approach. *International Journal of Applied Engineering Research*, 12(17), 6686-6692. (Q2)
19. Shakoor, M., Qureshi, M., Abu Jadayil, W. & Jaber, N. (2017). Assessment of retail practices for providing enhanced value added services and improved customer satisfaction using lean manufacturing approach. *International Review of Management and Marketing*, 7(2), 360-366. (Q3)
20. Abu Jadayil, W. (2015). Surface and Subsurface Defects Investigation of Ni-Ti Samples Processed by Different Fabrication Methods. *Research Journal of Applied Sciences, Engineering and Technology*, 11 (11), 1190-1195. (Q4)
21. Abu Jadayil, W. & Alnaber, M. (2015). Experimental Investigation of Tensile Properties of Ni-Ti Samples Prepared by Different Techniques. *International Journal of Applied Engineering Research*, 10(6), 1565115659. (Q2)
22. Abu Jadayil, W. & Alnaber, M. (2014). Assessment of Fatigue Life of Ni-Ti Samples Prepared by Different Techniques. *Applied Mechanics and Materials*, 477-478, 1264-1268. (Q3)
23. Abu Jadayil, W., Mohsen, M. & Al-Bashir, A. (2013). Statistical Model Representing Workers Turnover Problem in Third Developing Countries: Jordanian Industrial Sector. *International Journal of Human Resource Studies*, 102-110.
24. Obeidat, S., Abu Jadayil, W. & Mandahawi, N. (2013). Intelligent Sampling for Inspecting Milled Flat Plates. *International Review of Mechanical Engineering*, 7(4), 767-774. (Q3)
25. Obeidat, S., Fouad, R., Mandahawi, N. & Abu Jadayil, W. (2013). Intelligent Sampling for Inspecting Cylindrical Surfaces. *Advances in Information Sciences and Service Sciences*, 5(12), 46-55. (Q2)
26. Obeidat, S., Agbaraji, C., Abu Jadayil, W. & Mandahawi, N. (2012). Heterogeneous Femur Model Reconstruction for Improved FEA Analysis. *International Review of Mechanical Engineering*, 6(3), 320324. (Q3)
27. Abu Jadayil, W. & Mohsen, M. (2011). Experimental Investigation of Self Actuating Traction Drives with Solid and Hollow Rollers. *International Review of Mechanical Engineering*, 5(4), 637-645. (Q3)
28. Abu Jadayil, W. (2011). Experimental Investigation of Solidification Time Effects on Surface and Subsurface Aluminum Casting Defects. *International Review of Mechanical Engineering*, 5(4), 569-576. (Q3)

29. Abu Jadayil, W. (2011). Studying the effects of varying the pouring rate on the casting defects using nondestructive testing techniques. *Jordan Journal of Mechanical and Industrial Engineering*, 5(6), 521-526. (Q2)
30. Abu Jadayil, W. (2011). Main factors causing workers turnover in Jordan industrial sector. *Jordan Journal of Mechanical and Industrial Engineering*, 5(2), 161-166. (Q2)
31. Abu Jadayil, W. (2011). Revision of the recent heterogeneous object modeling techniques. *Jordan Journal of Mechanical and Industrial Engineering*, 4(6), 779-788. (Q2)
32. Abu Jadayil, W. & Mohsen, M. (2010). Design and manufacturing of self-actuating traction drives with solid and hollow rollers. *Jordan Journal of Mechanical and Industrial Engineering*, 4(4), 467-476. (Q3)
33. Khraisat, W. & Abu Jadayil, W. (2010). Strengthening Aluminum Scrap by Alloying with Iron. *Jordan Journal of Mechanical and Industrial Engineering*, 4(3), 372-377. (Q3)
34. Abu Jadayil, W. & Jaber, N. (2010). Numerical prediction of optimum hollowness and material of hollow rollers under combined loading. *Materials and Design*, 31(3), 1490-1496. (Q1)
35. Abu Jadayil, W. & Khraisat, W. (2010). Predicting the optimum hollowness of normally loaded cylindrical rollers using finite element analysis. *Journal of Materials Science and Technology*, 26(2), 176-183. (Q1)
36. Khraisat, W., Borgstrom, H., Nyborg, L. & Abu Jadayil, W. (2009). Optimising grey iron powder compacts. *Powder Metallurgy*, 52(4), 291-297. (Q1)
37. Abu Jadayil, W. (2008). Relative fatigue life estimation of cylindrical hollow rollers in general pure rolling contact. *Journal of Tribotest (Lubrication Science)*, 14(1), 27-42. (Q2)
38. Abu Jadayil, W. & Flugrad, D. (2007). Fatigue life investigation of solid and hollow rollers under pure normal loading. *Journal of Tribotest (Lubrication Science)*, 13(4), 165-181. (Q2)
39. Abu Jadayil, W. (2005). Fatigue life investigation of solid and hollow rollers in pure rolling contact. PhD dissertation, ProQuest UMI Dissertation Publishing, ISU Press, Ames, Iowa.

- **Papers Submitted for Publication:**

- Machine Learning Enhancement Rule for Renewable Energy Management: A Comprehensive Review.
- Research Analysis for the Main Factors Causing Road Traffic Accidents in the United Arab Emirates.
- The Effect of Age and Sex on Causing Car Accidents.
- Studying the Influence of Communication Challenges as Critical Success Factor of Multicultural Projects.
- Green Technologies and Energy Management in Sustainable Power Generation and Utilization: A Comprehensive Review

- **Papers Under Preparation:**

- AI model for Reducing Car Accidents Caused by Human Errors.

- **Acceptance of Sustainability Aspects of Recycling Water Bottles in UAE.**

• **Conferences:**

1. Wisam Abu Jadayil, W., Aqil, E., AbuAmmouna, E. and Jaarour, A. (May 2-5, 2024) Statistical Analysis for Major Causes of Traffic Accidents in UAE. The 9th Arab Impact Factor Conference, Abu Dhabi, UAE.
2. Abu Jadayil, Wisam; Ajaj, Rahaf; Anver, Hamna (28-31 March, 2022). Plastic Pollution and Climate Change: Review on Impacts on Public Health. The UAE Climate Change Research Network's First Conference (MENACW 2022), Dubai, UAE.
3. Abu Jadayil, W., Ajaj, R., & Hammoud, S. (29th & 30th December, 2021). Building a Deposit-Refund Scheme for Closed Loop Recycling of Water Bottles in UAE. 4th International Conference on Applied Sciences, Engineering, Technology and Management (ICASETM). Dubai, UAE.
4. Abu Jadayil, W., & Serhan, D. (10th-14th March, 2019). The Effect of Heat-Treatment and Alloying of NiTi Alloy with Copper on Improving its Fatigue Life. Minerals, Metals and Materials Series: TMS 2019 148th Annual Meeting & Exhibition. San Antonio, Texas, USA: Springer. (SCOPUS indexed, Q3)
5. Abu Jadayil, W., & Alnaber, M. (2014). Assessment of Tensile Properties of Ni-Ti Samples Prepared by Different Techniques. Proceedings of the 12th Biennial Conference on Engineering Systems Design and Analysis. Copenhagen, Denmark. (SCOPUS indexed, where proceedings are published in Journal of Applied Mechanics, Q3)
6. Abu Jadayil, W. and Alnaber, M., "Assessment of Fatigue Life of Ni-Ti Samples Prepared by Different Techniques," 2nd International Conference on Applied Mechanics and Materials, November 23-24, 2013, Zhuhai, China.
7. Obeidat, S., Bashir A. and Abu Jadayil, W., "The Importance of Class Attendance and Cumulative GPA for Academic Success in Industrial Engineering Classes," World Academy of Science, Engineering and Technology Proceedings, Vol. 6, No. 1: 1025-1028, Jan 25, 2012, Dubai, UAE.
8. Abu Jadayil, W., Flugrad, D. and Qamhiyah, A., "Fatigue life prediction of optimum hollowness of hollow cylindrical rollers in pure rolling contact," Proceedings of the 8th Biennial ASME Conference on Engineering Systems Design and Analysis - ESDA 2006, The ASME Conference on Engineering Systems Design and Analysis, Turin, Italy, July 4-7, 2006. (SCOPUS-indexed)
9. Abu Jadayil, W. and Flugrad, D. "Optimization of fatigue life of hollow rollers under pure normal loading," Proceedings of the 8th Biennial ASME Conference on Engineering Systems Design and Analysis - ESDA 2006, The ASME Conference on Engineering Systems Design and Analysis, Turin, Italy, July 4-7, 2006. (SCOPUS-indexed)
10. Abu Jadayil, W., Flugrad, D. and Qamhiyah, A. "Fatigue life investigation of solid and hollow cylindrical rollers," International Conference on CAE and computational Technologies for Industry, Convento di San Domenico - Lecce – Italy, October 5-8, 2005.
11. Abu Jadayil, W., Flugrad, D. and Qamhiyah, A. "Fatigue life investigation of solid and hollow cylinders in pure rolling contact," Proceedings of NANO2005 Integrated Nanosystems: Design, Synthesis and Applications September 15-16, 2005, University of California, Berkeley, California USA.
12. Abu Jadayil, W., Flugrad, D. and Qamhiyah, A. "Fatigue life investigation of solid and hollow rollers in pure rolling contact," Extended Abstract, World Tribology Congress III, Washington DC, USA, September 12-16, 2005. (SCOPUS indexed)

13. Abu Jadayil, W., Flugrad, D. and Qamhiyah, A. "Fatigue life investigation of solid and hollow cylinders under Normal loading," Extended Abstract, 8th US National Congress on Computational Mechanics, Austin, TX, July 25-27, 2005.

Books:

- "Maintenance Strategies for NC and CNC Machines", written in Arabic Language. Used as textbook in The Technical and Vocational Training Corporation in Saudi Arabia since March 2011.
- "CNC Grinding Machines", written in English Language and translated to Arabic Language. Used as textbook in The Technical and Vocational Training Corporation in Saudi Arabia since January 2010.

List of References:

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