

**Achievements of the Industrial Engineering PhD Program List of Publications**

**Publications of PhD Students in the Academic Year 2018-2019**

<b>Researches Published Through Research Groups</b>	
No	Publications
1.	Ali Ahmad, Mageed Ghaleb, Saber Darmoul, Mohammed Alkahtani, and Shatha Samman , 2019, A combined multitasking performance measure involving sequential and parallel task executions, <i>Cognition, Technology &amp; Work</i> , , 12, Q4, IF 1.206
2.	Saqib Anwar, Fawaz M. Abdullah, Mohammed S. Alkahtani, Shafiq Ahmad, Moath Alatefi , 2019, Bibliometric Analysis of Abrasive Water Jet Machining, <i>Research, Journal of King Saud University - Engineering Sciences</i> , 31, 262-270, , IF
3.	Kaid, H., Al-Ahmari, A., El-Tamimi, A. M., Nasr, E. A., & Li, Z., 2019, Design and Implementation of Deadlock Control for Automated Manufacturing Systems, <i>South African Journal of Industrial Engineering</i> , 30, 21, Q4, IF 0.488
4.	Mohamed Z. Ramadan, Mustafa M. Nasr, Abdulmajeed A. Dabwan, Tamer M. Khalaf, Mohammed H. Alhaag, Ahmed T. Soliman, Abdelaty E. Abdelgawad , 2019, Evaluation of holding handheld scanner on muscle activity, heart rate variability, and model accuracy in industrial applications, <i>International Journal of Industrial Ergonomics</i> , 74, 102873, Q3, IF 1.662
5.	Umer, U., Ameen, W., Abidi, M. H., Moiduddin, K., Alkhalefah, H., Alkahtani, M., & Al-Ahmari, A. , 2019, Modeling the Effect of Different Support Structures in Electron Beam Melting of Titanium Alloy Using Finite Element Models, <i>Metals</i> , 9, 806, Q2, IF 2.117
6.	Ali Alsamhan, Adham E. Ragab, Abdulmajeed Dabwan ,Mustafa M. Nasr, Lotfi Hidri , 2019, Prediction of formation force during single-point incremental sheet metal forming using artificial intelligence techniques, <i>PLOS ONE</i> , 14 (8), e0221341, Q2, IF 2.74
7.	Adel AL-SHAYEA, Abdulmajeed DABWAN, Adham E RAGAB, Mustafa M. NASR, Husam KAID, 2019, Studying the Effect of Process Parameters on Part Depth in Single Point Incremental Forming of AA1050-H14 Aluminum Alloy Sheets, <i>Technical Gazette</i> , 6, 1606-1613, Q4, IF 0.67
8.	Salah, Bashir., Abidi, M., Mian, S., Krid, M., Alkhalefah, H., Abdo, A., (2019) "Virtual Reality Based Engineering Education to Enhance Manufacturing Sustainability in Industry 4.0" Sustainability.
9.	Mehdi Mrad, Khalid S. Al-Gahtani, Rahmeto Hulchafo, Nizar Souayah and Khaled Bamatraf (2019) " Risk Assessment for Discrete Stochastic Time-Cost-Quality Trade-Off Problem Using Simulation-Based Integer Linear
10	Basem M. A. Abdo, Saqib Anwar, Abdulaziz M. El-Tamimi, and Emad Abouel Nasr, (2019)"Experimental Analysis on the Influence and Optimization of $\mu$ -RUM Parameters in Machining Alumina Bioceramic", <i>Materials (Basel)</i> , Vol. 12, No. 4. pp. 616,.
11	Shahid Bashir, Shafiq Ahmad, Moath Alatefi, Ali Hamza, Mohamed Sharaf, Shirely Fecteau & Woo Kyoung Yoo (2019), Effects of anodal transcranial direct current stimulation on motor evoked potentials variability in humans
12	Mohammed M. Mabkhot , Sana Kouki Amri , Saber Darmoula , Ali M. Al-Samhana , and Sabeur Elkosantinia, 2019, An ontology based multi criteria decision support system to reconfigure manufacturing systems
13	Ghaleb, A. M., Saleh, M. A., Ragab, A. E., Dabwan, A., Khalaf, T. M., & Umer, U. (2019). A new method to produce T-shaped tubular fittings with experimental and simulation results.

14	Alkahtani MS, El-Sherbeeny AM, Al-Marfadi A, and Abdullah FM. (2019). "A Panoramic View of Industrial Engineering: The Case of Saudi Arabia."
<b>Researches Published Through Research Projects</b>	
15	Kaid, H., Al-Ahmari, A., El-Tamimi, A. M., Nasr, E. A., & Li, Z., 2019, Design and Implementation of Deadlock Control for Automated Manufacturing Systems, South African Journal of Industrial Engineering, 30, 21, Q4, IF 0.488
16	Basem M. A. Abdo, Naveed Ahmed, Abdulaziz M. El-Tamimi, Saqib Anwar, Hisham Alkhalefah, Emad Abouel Nasr, (2019) "Laser Beam Machining of Zirconia Ceramic: An Investigation of Micromachining Geometry and Surface Roughness
17	ADEL AL-SHAYEA, MOHAMMED A. NOMAN, EMAD ABOUEL NASR, HUSAM KAID , ALI K. KAMRANI, AND ABDULAZIZ M. EL-TAMIMI, 2019, New Integrated Model for Maintenance Planning and Quality Control Policy for Multi-Component System Using an EWMA Chart, IEEE Access , 7, 160623-160636, Q1, IF 3.745
<b>Individual Researches</b>	
18	Mohammed M. Mabkhot,A. M. Al-Samhan, Lotfi Hidri, 2019, An Ontology-Enabled Case-Based Reasoning Decision Support System for Manufacturing Process Selection, Advances in Materials Science and Engineering, 2019, ID 2505183, Q4, IF 1.271
19	L. Hidri, A. M. Al-Samhan and M. M. Mabkhot, 2019, Bounding Strategies for the Parallel Processors Scheduling Problem With No-Idle Time Constraint, Release Date, and Delivery Time, IEEE Access, 7, 170392-170405, Q1, IF 3.745
20	Atef M. Ghaleb, Mohamed Z. Ramadan, Khalid Saad Aljaloud , 2019, Effect of Ambient Oxygen Content and Lifting Frequency on the Participant's Lifting Capabilities, Muscle Activities, and Perceived Exertion, International Journal of Health and Medical Engineering, 13, 489-493, , IF
21	Atef M. Ghaleb, Mohamed Z. Ramadan, Ahmed Badwelan and Khalid Saad Aljaloud , 2019, Effect of Ambient Oxygen Content, Safety Shoe Type, and Lifting Frequency on Subject's MAWL and Physiological Responses, International journal of environmental research and public health, 16, 4172, Q2, IF 2.849
22	Moath Alatefi, Shafiq Ahmad, Mohammed Alkahtani, 2019, Performance Evaluation Using Multivariate Non-Normal Process Capability, Processes, 7, 1 to 24, Q2, IF 2.753
23	Kaid, H., Al-Ahmari, A., Li, Z., & Davidrajuh, R., 2019, Single Controller-Based Colored Petri Nets for Deadlock Control in Automated Manufacturing Systems, Processes, 8, 21, Q2, IF 2.753
24	Abdo B.M.A., Anwar S., & El-Tamimi A.M. (2019). 'Machinability study of biolox forte ceramic by milling microchannels using rotary ultrasonic machining'
25	Mohammed Mabkhot , Ali M. Al-Samhan, Lotfi Hidri, (2019), "An Ontology-Enabled Case-Based Reasoning Decision Support System for Manufacturing Process Selection"

## Publications of PhD Students in the Academic Year 2019-2020

<b>Researches Published Through Research Groups</b>	
No	Publications
1.	MM Mabkhot, S Darmoul, AM Al-Samhan, A Badwelan, 2020, A Multi-Criteria Decision Framework Considering Different Levels of Decision-Maker Involvement to Reconfigure Manufacturing Systems, <i>Machines</i> , 8, 8, , IF
2.	Mohamed A. Mohamed, Elham Tajik, Emad Mahrous Awwad, Ahmed M. El-Sherbeeney, et al. , 2020, A two-stage stochastic framework for effective management of multiple energy carriers, <i>Energy</i> , 197, 117170, Q1, IF 6.082
3.	MM Mabkhot, SK Amri, S Darmoul, AM Al-Samhan, S Elkosantini, , 2020, An ontology-based multi-criteria decision support system to reconfigure manufacturing systems, <i>IISE Transactions</i> , 52, 18-42, Q3, IF 1.579
4.	AM Ghaleb, H Kaid, A Alsamhan, SH Mian, L Hidri, 2020, Assessment and Comparison of Various MCDM Approaches in the Selection of Manufacturing Process, <i>Advances in Materials Science and Engineering</i> , 2020, , Q4, IF 1.271
5.	Atef M. Ghaleb, Husam Kaid, Ali Alsamhan, Syed Hammad Mian, and Lotfi Hidri, 2020, Assessment and Comparison of Various MCDM Approaches in the Selection of Manufacturing Process, <i>Advances in Materials Science and Engineering</i> , 2020, 4039253, Q4, IF 1.271
6.	Ateekh Ur Rehman, Ayoub Al-Zabidi, Mohammed AlKahtani, Usama Umer and Yusuf Siraj Usmani , 2020, Assessment of Supply Chain Agility to Foster Sustainability: Fuzzy-DSS for a Saudi Manufacturing Organization, <i>Processes</i> , 8, 755, Q2, IF 2.576
7.	Atef M. Ghaleb & Mohamed Z. Ramadan & Ahmed Badwelan, Lamjed Mansour, Jameel Al-Tamimi and Khalid Saad Aljaloud , 2020, Determining the time needed for workers to acclimatize to hypoxia, <i>International Journal of Biometeorology</i> , , 11, Q2, IF 2.68
8.	Atef M. Ghaleb & Mohamed Z. Ramadan & Ahmed Badwelan, Lamjed Mansour, Jameel Al-Tamimi and Khalid Saad Aljaloud, 2020, Effect of hypoxia, safety shoe type, and lifting frequency on the subject's cardiovascular and ventilation responses, <i>International Journal of Industrial Ergonomics</i> , 2020, 11, Q3, IF 1.662
9.	Mohammed Alkahtani, Mustufa Haider Abidi, Ali Ahmad, Saber Darmoul, Shatha Samman, and Mageed Ghaleb , 2020, Human Interruption Management in Workplace Environments: An Overview, <i>Engineering, Technology &amp; Applied Science Research</i> , 10, 5452--5458, , IF
10	Atif Khan, Ibrahim Ibrahim, M. Irfan Uddin, Muhammad Zubair, Shafiq Ahmad, Muhammad Dzulqarnain Al Firdausi, Mazen Zaindin, 2020, Machine Learning Approach for Answer Detection in Discussion Forums: an Application of Big Data Analytics, <i>Scientific Programming</i> , 2020, 1 to 10, Q3, IF 1.289
<b>Researches Published Through Research Projects</b>	
11	Emad Abouel Nasr, Abdulrahman Al-Ahmari, Awais A. Khan, Syed Hammad Mian, Osama Abdulhameed & Ali Kamrani, , 2020, Integrated system for automation of process, fixture and inspection planning, <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 42, 10, Q3, IF 1.755
12	Husam Kaid, Abdulrahman Al-Ahmari, Emad Abouel Nasr, Adel Al-Shayea, Ali K. Kamrani, Mohammed A. Noman, Haitham A. Mahmoud, 2020, Petri net Model Based on Neural Network for Deadlock Control and Fault Detection and Treatment in Automated Manufacturing Systems, <i>IEEE Access</i> , 8, 103219-103235, Q1, IF 3.745
<b>Individual Researches</b>	

13	Atef M. Ghaleb, Tamer M. Khalaf , Mohamed Z. Ramadan, Adham E. Ragab and Ahmed Badwelan, 2020, Effect of Cycling on a Stationary Bike While Performing Assembly Tasks on Human Physiology and Performance Parameters, International journal of environmental research and public health, 17, 1761, Q2, IF 2.849
14	Fares F. Alferdaws and Mohamed Z. Ramadan, 2020, Effects of Lifting Method, Safety Shoe Type, and Lifting Frequency on Maximum Acceptable Weight of Lift, Physiological Responses, and Safety Shoes Discomfort Rating, International journal of environmental research and public health, 17, 3012, Q2, IF 2.849
15	Kaid, H., Al-Ahmari, A., Li, Z., & Davidrajuh, R, 2020, Intelligent Colored Token Petri Nets for Modeling, Control, and Validation of Dynamic Changes in Reconfigurable Manufacturing Systems., Processes, 8, 358, Q2, IF 2.753
16	Mohammed Alkahtani, Shafiq Ahmad, Mohammed A. Noman and Husam Kaid, Ahmed Badwelan , 2020, International Journal of Industrial and Systems Engineering, International Journal of Industrial and Systems Engineering, 35, 314--344, , IF
17	Basem M. A. Abdo, Abdualziz El-Tamimi and Emad Abouel Nasr, 2020, Rotary Ultrasonic Machining of Alumina Ceramic: An Experimental Investigation of Tool Path and Tool Overlapping, Applied Sciences Basel, 10, 21, Q2, IF 2.474
18	AM Al-Shayea, M Saleh, M Alatefi, M Ghaleb, 2020, Scheduling Two Identical Parallel Machines Subjected to Release Times, Delivery Times and Unavailability Constraints,, Processes, 8, 1025-1044, Q2, IF 2.576
19	Al-Ahmari, A., Kaid, H., Li, Z., & Davidrajuh, R., 2020, Strict Minimal Siphon-Based Colored Petri Net Supervisor Synthesis for Automated Manufacturing Systems With Unreliable Resources, IEEE Access, 8, 22411-22424., Q1, IF 3.745
20	Abdulmajeed Dabwan , Adham E. Ragab , Mohamed A. Saleh, Saqib Anwar, Atef M. Ghaleb and Ateekh Ur Rehman , 2020, Study of the Effect of Process Parameters on Surface Profile Accuracy in Single-Point Incremental Sheet Forming of AA1050-H14 Aluminum Alloy, Advances in Materials Science and Engineering, 2020, 14, Q4, IF 1.271
21	Adel Al-Shayea, Fawaz M. Abdullah, Mohammed A. Noman, Husam Kaid and Emad Abouel Nasr, 2020, Studying and Optimizing the Effect of Process Parameters on Machining Vibration in Turning Process of AISI 1040 Steel, Advances in Materials Science and Engineering, 2020, 15, Q4, IF 1.271
22	Ramadan, M. Z., Ghaleb, A. M., & Ragab, A. E. , 2020, Using electroencephalography (EEG) power responses to investigate the effects of ambient oxygen content, safety shoe type, and lifting frequency on the worker's activities, BioMed Research International, 2020, , Q3, IF 2.276

## Publications of PhD Students before the Academic Year 2018-2019

<b>Researches Published Through Research Groups</b>	
No	Publications
1.	Al-Ahmari, A., Ashfaq, M., Alfaify, A., Abdo, B., Alomar, A., & Dawud, A., 2016, Predicting surface quality of $\gamma$ -TiAl produced by additive manufacturing process using response surface method, Journal of Mechanical Science and Technology, 1, 30
2.	Ameen W., Alkahatani M., Mohammed M.K., Abdulhameed O., & El-Tamimi A.M. (2018). 'Investigation of the effect of buffer storage capacity and repair rate on production line efficiency'
3.	Shahid Bashir, Shafiq Ahmad, Moath Alatefi, Ali Hamza, Mohamed Sharaf (2018), Quantifying and visualizing the transcranial direct current stimulation research indicators
4.	Shafiq Ahmad, Ahmed Badwelan, Atef M. Ghaleb, et al., "Analyzing Critical Failures in a Production Process: Is Industrial IoT the Solution?"
5.	Ali Alsamhan, Adham E. Ragab, Abdulmajeed DabwanID*, Mustafa M. Nasr, Lotfi Hidri, "Prediction of formation force during singlepoint incremental sheet metal forming using artificial intelligence techniques
6.	
<b>Researches Published Through Research Projects</b>	
7.	Abdo B.M.A., El-Tamimi A.M., Anwar S., Umer U., Alahmari A.M., & Ghaleb M.A. (2018). 'Experimental investigation and multi-objective optimization of Nd:YAG laser micro-channeling process of zirconia dental ceramic'
8.	Oussama Karoui, Zhiwu Li, Fellow, IEEE, Naiqi Wu, Senior Member, IEEE, Mohamed Khalgui, Emad Abouel Nasr, and Abdulaziz Mohammed El-Tamimi, (2018) " One-Step Control-Ahead Approach for the Design of an Optimal Petri-net Based Deadlock Prevention
9.	Basem M.A. Abdo, Saqib Anwar, Abdulaziz M. El-Tamimi, Abdulrahman M. Alahmari, Emad Abouel Nasr, (2018) "Laser micro-milling of bio-lox forte ceramic: An experimental analysis",
10	Ibrahim Alharkan, Khaled Bamatraf, Mohammed A. Noman, Husam Kaid, Emad S. Abouel Nasr, and Abdulaziz M. El-Tamimi, (2018)"An order effect of neighborhood structures in variable neighborhood search algorithm for minimizing the makespan in an identical parallel machine scheduling
11	Naveed Ahmed, Saied Darwish, Abdulrahman M. Alahmari, 2016, Laser Ablation and Laser - hybrid Ablation Processes: A Review, Materials and Manufacturing Processes, Issue 9, Volume 31
12	Saied Darwish, Naveed Ahmed, Abdulrahman, M., Alahmari, Nadeem Ahmad Mufti, 2016, A comparison of laser beam machining of micro-channels under dry and wet mediums, The International Journal of Advanced Manufacturing Technology, Issue 9-12 /Volume 83
13	Abdulrahman M. Alahmari, Naveed Ahmed, Saied Darwish, 2016, Laser beam micro-machining under water immersion, The International Journal of Advanced Manufacturing Technology, Issue 9-12 /Volume 83
14	Naveed Ahmed, Saied Darwish, Abdulrahman M. Alahmari, 2016, Experimental Investigation of Dimensional Variation in Laser machined
<b>Individual Researches</b>	
15	Al-Ashaik, Riyad A., Ramadan, M.Z., Al-Saleh, K.S., Khalaf, T.M., November 2015, Effect of safety shoes type, lifting frequency, and ambient temperature on subject's MAWL and physiological responses, International Journal of Industrial Ergonomics, Volume 50, pp. 43–51.