

# **CURRICULUM VITAE**

## **Dr Mohammad E. Jreissat**

PhD, MSc, BSc

Industrial Engineering

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### **Motivation**

My satisfaction comes from bringing innovation through creativity. Creativity is typically connected to innovation and change. The creative process is always seeking solutions to problems that are present and situations that produce some challenges. I will create world-class practical innovation solutions with creative ideas, planning and design strategies and innovative approaches. This practice comes from my strong variety of experience and knowledge, coupled with my educational background and strong technical skills.

Dr Jreissat is an Industrial Engineer with over 20 years of experience in academic and industrial projects. I obtained PhD in Industrial Engineering from Brunel University London, MSc in Industrial Engineering\ Management from The University of Jordan and BSc in Industrial Engineering from The Hashemite University, Jordan. I had been involved in the locally funded project titled “*A Fully Automatic Factory for Water Cups in The Hashemite University Greenhouse Desalination Plant*”, which is managed by the Deanship of Academic Research at The Hashemite University. Likewise, I was earlier involved in the internationally funded project titled “*Prototyping Open Innovation Models for ICT-Enabled Manufacturing in Food and Packaging*,” managed by the UK Engineering and Physical Sciences Research Council (EPSRC). Dr Jreissat previously worked as a production, inspection, and planning engineer in different process manufacturing industries, learning and teaching diverse theoretical and practical engineering courses in Jordan and the UK.

I am motivated to engage and participate in various disciplines, bridging between departments or between countries and cultures. This pattern can bring fresh perspectives and ideas, which is crucial for an open exchange of ideas. It is also vital to be supported and encouraged to translate our vision into specific tasks for delivering professionalism, integrity, superior leadership, and innovative ideas that will be translated into bottom-line results.

### **Personal Information**

- Nationality: Jordanian
- Date of Birth: April 13, 1983
- Place of Birth: Amman
- Sex: Male
- Marital Status: Married, 2 Children
- Holder of British National Insurance Number
- Jordan Engineers Association (JEA) member

## Education

- **August 2016: PhD in Industrial Engineering**, Department of Advanced Manufacturing and Enterprise Engineering, School of Engineering and Design, Brunel University London, **UK**.  
Thesis Title: “*A Novel Flow System for the Concurrent Product and Process Design of Emulsion-Based Formulations*”
- **June 2010: MSc in Industrial Engineering\Management**, School of Engineering, The University of Jordan, **Jordan**.  
Thesis Title: “*Economical Analysis of Maintenance Management in Jordan Cement Industry*”
- **June 2005: BSc in Industrial Engineering**, Faculty of Engineering, The Hashemite University, **Jordan**.  
Graduation Project Title: “*Mechanical Testing and Microstructure Analysis of Metal Matrix Composite of Aluminium and Iron*”
- **August 2001: High School** – Latin and Orthodox Greek Schools, Al-Fuhais, **Jordan**.

## Related Courses

- **PhD Courses:**
  - Multiphase Flow Fundamental
  - Operations Management
  - Project Management
  - Strategic Management
  - Total Quality Management (TQM).
- **BSc & MSc Courses:**
  - Computer Aid Design and Manufacturing (CAD/CAM)- (BSc Course)
  - Decisions Analysis- (BSc course)
  - Engineering Economics- (BSc & MSc Course)
  - Engineering Statistics- (BSc & MSc Course)
  - Human Factors and Ergonomics- (BSc & MSc Course)
  - Metallurgy Engineering- (BSc Course)
  - Manufacturing Processes (I, II & III)- (BSc Course)
  - Maintenance Management- (BSc & MSc Course)
  - Materials Properties Science- (BSc Course)
  - Production Planning and Control- (BSc & MSc Course)
  - Operations Research (I & II)- (BSc & MSc Course)
  - Projects management- (BSc & MSc Courses)
  - Just In Time (JIT) Production- (BSc Course)
  - Simulation- (BSc & MSc Course)

## Training Courses

- **2019:** Two-day training sessions on the Training of Trainers on Resource Efficiency and Circular Production (RECP) organised by the International Trade Centre for the MENATEX Jordan Project, in EJABI-JCI, Amman Chamber of Industry Building, 10-11 December 2019, Amman, Jordan.
- **2019:** Two-day training sessions on teaching strategies for transparency, integrity and anti-corruption course in Jordan universities, organised by Rasheed for Integrity and Transparency (Transparency International – Jordan), 6-7 November 2019, Amman, Jordan.
- **2019:** Two-day training sessions on Intellectual Property Policies for Universities and Research Institutions organised by The World Intellectual Property Organization (WIPO) In cooperation with the Industrial Property

Protection Directorate, Ministry of Industry, Trade and Supply of the Hashemite Kingdom of Jordan (MIT), 19-20 March 2019, Amman, Jordan, MIT Premises, Petra Hall.

- **2016:** Different training courses at Cranfield University, UK, include: Environmental Awareness, ErgoWize, Fire Safety Essential, Health and Safety Induction, Manual Handling, Slips, Trips and Falls, Information Security and Equality, Diversity and Inclusion.
- **2015:** Graduate Learning & Teaching Programme (GLTP) at Brunel University London, UK. April 2015.
- **2012, 2014, 2015:** Researcher Development Series (I, II and III): new researcher induction in 2012, intermediate researcher development in 2014 and advanced researcher development in 2015 at Brunel University London.
- **2013, 2014:** Writing A Literature Review, April 2013; Introduction to RefWorks (Referencing program), May 2013; Academic Writing Skill Workshop, January 2014; Experiment Design for Efficient Data Taking and Algorithm Design and Development 2: Journal Club Exercise, March 2014, at Brunel University London, UK.
- **2013:** MatLab Programming Training Course at Brunel University London, UK, December 2013
- **2013:** LabVIEW Programming Training Course at National Instruments Corporation, UK, November 2013.
- **2012:** Presentation Skills: Preparing Research Posters and Job Applications and CV Writing for Researchers at Brunel University London, UK, 5 and 25 October 2012, respectively.
- **2011-2012:** Attending Advanced Seminars in Business Management at World Islamic Science & Education University (WISE), Jordan. These seminars are Operations Management, Strategic Management, Project Management and Total Quality Management, October 2011– June 2012.
- **2007:** Industrial Safety Training Sessions at Lafarge Cement Jordan Company (French Group).
- **2007:** Kiln Mechanics and Maintenance Training Session at Lafarge Cement Jordan Company (French Group) from 15<sup>th</sup> - 17<sup>th</sup> December 2007.
- **2006:** JISR; PeopleSoft System Training Session at Lafarge Cement Jordan Company (Head Office) for three days in September 2006. It is a Supply Chain Management Software.
- **2006:** MAXIMO Training Session at Lafarge Cement Jordan Company (Al-Fuhais) for four days in May 2006. It is Computerised Maintenance Software.
- **2004:** Two months of practical and theoretical training at Lafarge Cement Jordan Company (French Group) in July 2004.
- **2003:** One month of practical and theoretical training at the Arab Pharmaceutical Manufacturing Company (APM) in September 2003 (the APM is now listed under Hikmah Pharmaceuticals Group).

## Experiences

### • Academic Experiences:

- **Feb 2024- Present: The University of Jordan [Lecturer\Assistant Professor]**

I am a lecturer in the Industrial Engineering Department, School of Engineering.

- **Contributions and Responsibilities:** Teaching and Research

### • Teaching

- I teach different modules in management courses at undergraduate levels. These modules require demonstrating different industrial applications in the class. An efficient and effective solution is found using several methodologies and strategies from these modules. Examples of these modules:
  - Probability and Statistics Module
  - Industrial Safety Engineering Module
  - Production Planning and Control Module
  - Project Management Module
  - Risk Management Module

### • Research

- Supervisor on Graduation Research Projects
- To supervise engineering students in the fields of engineering management in different industries under research projects.

- **January 2018- Feb 2024: The Hashemite University [Assistant Professor]**

I am a lecturer\an Assistant Professor in the Industrial Engineering Department, School of Engineering.

- **Contributions and Responsibilities:** Teaching, Research and Administration

- **Teaching**

- I teach various modules in management courses at both *undergraduate and postgraduate levels*. These modules require demonstrating different industrial applications in the class. An efficient and effective solution is found using several methodologies and strategies from these modules, such as lean management, Six Sigma methodology, quality control and TQM and creativity and innovation tools. However, these applications have several constraints, such as environmental and economic requirements and the availability of resources (natural and artificial). Such demonstrations are experienced in:

- Operations Research Module.
- Probability and Statistics Module
- Industrial Automation and Control Module
- Industrial Automation Lab Module
- Availability and Reliability Assessment Module
- Electrical and Mechanical Condition Monitoring Module
- Safety and Environment Module
- Strategic Planning for Crisis and Disaster Management Module

- **Research**

- Primary Researcher in the funded research project

The research project titled: “*A Fully Automatic Factory for Water Cups in The Hashemite University Greenhouse Desalination Plant*” is funded for 18 months with a value of 109,000 JOD from the Deanship of Academic Research - The Hashemite University. The project aims to de-bottleneck and streamline the production process of the water treatment station by integrating a manufacturing system for filling and packaging water that employs an automatic production line to provide The Hashemite University with in-house pure drinking water cups.

- Supervisor on Graduation and Master Theses Research Projects

- To supervise engineering students in the fields of engineering management and maintenance management in different manufacturing\service sectors under some research projects titled as follows:

- “Optimisation of the Mechanical Properties of Steel Rebars Products in International Steel Manufacturing Factory in Jordan using Statistical Experimental Design.”
- “Implementation of Lean Production in Al Masri Company”
- “Optimising Production Cycle Time using Lean Management at Nabil Food Industry”
- “Implementation of Six Sigma Approach in Manufacturing Industries”
- “Resilience Sustainable Approach for Food Chain Waste and Loss”
- “Food Waste Reduction Within Supply Chain Systems in Jordan”
- “Short-term Demand Predictions and Optimisation in Jordanians' Service Industry Using ARIMA and LSTM Models”
- “Improving Maintenance Operations in Civil Facilities Using Digital Technology: A Case Study of the State of Kuwait.”
- “Improving Maintenance Operations in the Kuwaiti Construction Industry Using Lean Principles.”
- “Smart Park Management System Based on IOT”.

- Examine MSc Theses and graduation research projects In Industrial Engineering, Maintenance Management, and Crisis and Disaster Management. Examples of topics are supply chain systems, operations management, Industry 4.0 topics, quality control, statistical design experiments, Six Sigma, process engineering, renewable energy management, waste management, and other Jordanian industrial and service projects.

- **Administration**

- Chairman of the permanent technical committee for packaging materials in The Jordan Standards and Metrology Organization since 2018. Decisions and actions are undertaken in the packaging materials to prevent environmental effects, safety and health issues, general waste and losses and other technical and social impacts based on the standard specifications or technical knowledge bases. Technical studies and recommendations are reported to the Council on matters related to packaging materials.

- Supervision and guidance of graduate and postgraduate students in industrial engineering, particularly Engineering Management. My research interests are engineering management, management and production lines, new product development, innovation, supply chain management and logistics, food value chains, maintenance management, lean management, quality control and Six Sigma, operations control and optimisation, process engineering, sustainable manufacturing systems, industrial automation, and decision-making processes.

- Chairman and member of different internal management committees in the university.

- Reviewer in Jordan Journal of Mechanical and Industrial Engineering since 2018.

- Assistant Editor in Jordan Journal of Mechanical and Industrial Engineering since 2019. My task is to make the first screening and take publication decisions for articles related to different mechanical and industrial engineering topics such as engineering management, supply chain management, energy and power management, processes control and optimisation, new product development, and lean and waste management.

- **October 2017-January 2018: The Hashemite University [Part-Time Lecturer]**

I worked as a Part-Time Lecturer in the Industrial Engineering Department, School of Engineering.

- **Contribution and Responsibility:** Teaching

- **Teaching**

- Teaching various modules in engineering management at the undergraduate level (about 370 students at levels (1-4) in the academic years (2017/2018). Teaching Operations Research Module and Probability and Statistics module involves formulating practical decision problems, optimisation algorithms and solutions with limited resources and constraints such as customer demands and needs (e.g., food, water, energy and natural resources).

- **February 2017 – August 2017: The University of Jordan, Jordan [Part-time Lecturer]**

I worked as a Part-Time Lecturer in the Business Management Department, School of Business.

- **Contribution and Responsibility:** Teaching

- **Teaching**

- I taught a management course at the undergraduate level (about 180 students at levels (1-4) in 2016/2017.

- Operations Research module

- **October 2016 - January 2017: Cranfield University, UK [Assistant Researcher]**

I was an Assistant *Researcher in Formulation Design at the Sustainable Manufacturing Systems Centre* at the Department of Aerospace Transport and Manufacturing, School of Engineering. The UK Engineering and Physical Sciences Research Council funded and supported the research under the "Prototyping Open Innovation Models for ICT-Enabled Manufacturing in Food and Packaging" project.

- **Contribution and Responsibility:** Research and Management

The research scope was in the food industry, mainly food and drinks manufacturing and formulations regarding ingredients and process conditions. Importantly, processes/operations control and optimisation were performed using advanced analytical tools and instruments. This research, in turn, requires scientific knowledge from other sciences to solve these problems, such as materials science, operations research, optimisation algorithms, environment and resources management, and marketing and sustainable manufacturing operations topics.

- **Research**

- Conduct research on customer-driven New Product Development (NPD) and innovation processes.
- Develop creative and innovative tools for placing consumers in the NPD loop.
- Demonstrate a real-life case study (orange beverage\juice) through open innovation models.
- Formulate and produce orange juice using a novel continuous production platform (a patent work)
- Evaluate consumer preferences and obtain feedback about a new innovative product and creative method for continuous improvement.
- The results and feedback were recorded using crowdsourcing tools from a large group of international and national people in the UK.
- The main results were developing a creative and innovative tool and technology for responding to consumers' requirements and desires quickly and flexibly. Importantly, it is a way of saving cost, time and energy.
- Publish our achieved and valuable results in international conferences and journals as teamwork.

- **January 2013 – August 2016: Brunel University London, UK [PhD Researcher]**

I worked as a PhD Researcher on the project titled “Prototyping Open Innovation Models for ICT-Enabled Manufacturing in Food and Packaging”, managed by the UK Engineering and Physical Sciences Research Council (*EPSRC*).

- **Contribution and Responsibility:** Research and Management

- **Research**

- Research open innovation models and focus on the food industry as the most creative and innovative industry. This project aimed to design and develop a new crowdsourced food and package design and innovation platform comprised of a suite of ICT tools for state-of-the-art manufacturing processes and implementing "customers in the loop" co-creation product development processes. The project fund had a value of about 4,000,000 GBP for four years.
- Conduct research on the food product design and development area with our industrial partners, such as Leatherhead Food International Ltd, United Kingdom, and Premier Foods Group Ltd, United Kingdom (Collaboration).
- Attend progress meetings and discuss project issues to generate new ideas, innovative and novel processes, and approaches.
- Collaborate with my project team (more than ten people) to solve creative problems and our growing challenges to find suitable and innovative solutions and the best alternatives.
- Conduct a series of workshops, seminars and outreach activities to disseminate our findings and methodologies and develop and extend our industrial user network
- Design and develop two innovative devices for the food production process to achieve more savings in energy and cost (low-energy consumption) and improve the food product quality.
- Develop a novel flow system for concurrent product and process design of emulsion-based formulations. This system is patent work where creative ideas are implemented in an innovative solution. Also, the system is more efficient in terms of cost and energy than conventional production systems.
- Test and demonstrate our creative and innovative methodologies, approaches, and tools through real-life case studies such as food and beverage products (i.e., cakes, juices, and other products).
- Be awarded different grants for special training, research travelling, and studentship fund valued at 15000 GBP.
- Finish Graduate Teaching and Learning Program with success.
- Publish our outcomes and findings in international and national conferences and journals.

- **September 2014 - December 2015: Brunel University London, UK [GTA Lab Administrator]**

I worked as the GTA Lab Administrator for the Computer-Aided Design (CAD) module at the Department of Mechanical, Aerospace, and Civil Engineering.

- **Contribution and Responsibility:** Teaching and Training

- **Teaching**

- Teach and administrate the CAD software (CATIA V5) for 190 engineering students at level 2 in 2014/2015 and 2015/2016.
- Train students to use different software tools to facilitate creative problem-solving.
- Demonstrate new creative ideas, designs, or processes from essential geometric tools as prototype models using CAD software. Examples include mechanical design and manufacturing parts.
- Outline and update the course syllabus to make creative and innovative minds.
- Evaluate creative and innovative students' projects and provide them with critical constructive comments.

- **September 2011 - June 2012: The University of Jordan, Jordan [Part-Time Lecturer]**

I worked as a Part-Time Lecturer in the Industrial Engineering Department, Faculty of Engineering and Technology.

- **Contribution and Responsibility:** Teaching

- **Teaching**

- I taught different courses in the Industrial Engineering department for engineering students from 1<sup>st</sup> to 4<sup>th</sup> level in 2011/2012. The total number of students was about 300 students.
- Manufacturing Processes Lab Module
- Engineering Workshops Module

- **Professional Experiences:**

- **December 2019 – September 2020, The Hashemite University, Jordan [Director of CSCCS]**

My responsibility was as *Director of the Centre for Studies, Consultations and Community Service (CSCCS)*. It includes Developing and enriching the marketing functions, developing new professional and educational training programs and diplomas, coordinating efforts with colleges and other university centers to develop new training programs, and coordinating efforts to provide studies and consultations to the local community, industry, and government.

- **August 2010 – June 2012, Proton International Company, Jordan [Operations Manager]**

I was the operations manager for all operational and management activities and tasks for IT and security systems installation and maintenance projects, such as solar energy and industrial and home IT projects.

- **Contribution and Responsibility:** Management and Training

- **Management**

- Planning and scheduling activities using a computerised system. That, in turn, led to controlling workloads and maximising delivery time in addition to customer satisfaction and profitability.
- Develop safety programs to reduce incidents in the project sites by 30%.
- Hold daily, weekly, and monthly meetings to take feedback, give information, and continuously improve through the training programs required.
- Monitor employee productivity and follow the best approaches to reduce wasting costs (20%).
- It established a computerised inventory control and sales system to track all technical and managerial reports. It led to an increased performance rate of 80% and profitability.

- **April 2006 – July 2010, Lafarge Cement Jordan Company (French Group), Jordan [Mech. Inspector]**

I worked as a Mechanical Inspector/Engineer in the methods department, including the inspection and planning Section at the Al-Fuhais factory. Preventive, condition-based and predictive maintenance had been professionally demonstrated on different industrial process systems such as water treatment and pumps, mechanical\electrical rotary machines, environmental equipment, heating, cooling, thermal and energy systems. Also, scheduling and planning for all resources, including water, fuel, energy and power sources, raw materials and different spare parts in maintenance stoppage; inventory control and project management tools were applied for small and big industrial plant projects.

- **Contribution and Responsibility: Maintenance Management and Technical Training**

- **Management**

- Apply maintenance strategies to keep the production processing method at maximum efficiency. That means maintenance costs were reduced by about 25% of the overall operating costs in the factory.
- Schedule a preventive maintenance program to monitor the mechanical conditions of the plant (heavy industry). It was based on knowledge and historical data to improve overall equipment effectiveness to reach the world-class indicator (80-85%).
- Apply for quality control and assurance program on all daily maintenance tasks and activities and minor and major shutdowns to achieve high expected maintenance productivity (more than 45%).
- Follow up on all scheduling and planning programs and track inventory control systems concerning materials and resources efficiently and effectively.
- Attend maintenance meetings to find suitable alternatives\solutions and to produce brainstorming for creative problem-solving and solid decision-making.
- Explore maintenance troubles during the field visit; such quick actions reduce huge losses due to safety, maintenance, and production issues (e.g., Fuel, energy, thermal, and mechanical systems).
- Solve challenging maintenance problems and find their root causes using engineering analytical tools.
- Use advanced analytical instruments, tools, and tests, such as non-destructive tests and chemical process analysis, to monitor and report different control process conditions in processing production systems (electrical, environmental, mechanical, thermal, energy, and power systems) according to Jordanian and European standards and specifications (e.g., World-class benchmarking, environment and energy, and KPI performance for the factory).
- Provide technical training in maintenance strategies for engineering students from different Jordanian and international universities.

- **July 2005 - March 2006, Abu Khader Group, Jordan [Production Officer]**

I worked as a Production Officer/Engineer. My responsibility was to assist the production manager at the International Storage Batteries Company. Production planning, scheduling, and controlling for all stages of the production system have been utilised successfully for automobile batteries of different sizes and types.

- **Contribution and Responsibility: Production Management**

- **Management**

- Develop a creative Excel sheet for production and inventory control to improve the visibility of production quantities such as raw materials, semi-products, and finished products (improved by 80%). As a result, this led to investing in the MRP system.
- Apply production plans for sales and demands effectively and efficiently. It caused an increase in labour productivity (20%) and avoided sequential problems in production, quality, inventory, and distribution.
- Calculate the percentage of materials waste (e.g., lead and plastics) due to different product defects during manufacturing processes.



## Computer Skills

- CAD/CAM Software: AutoCAD, MasterCam Version 9, CATIA V5
- Computerised Maintenance Software: MAXIMO
- Microsoft Office: Ms Project, Ms Word, Ms Excel, Ms PowerPoint, Ms FrontPage
- Programming Language: MatLab, LabVIEW
- Statistical Package Software: Minitab, Design-Expert and SPSS
- Simulation Software: Excel, Simul8, Arena and Promodel

## Publications

- **Jreissat, M.**, et.al (2024). A Structural Quality Model for New Product Development to Enhance Resilience in Closed-Loop Formulated Food Supply Chains, Vol 00 (00), P. 000-000. (**Under Review**)
- **Jreissat, M.** & Makatsoris, C. 2023. Novel continuous oil in water emulsion production using membrane emulsification, *Industrial & Engineering Chemistry Research*, Vol 00 (00), P.000-000. (**Working on**).
- Samawi, G. A., Jraisat, L., Khlaif, F., **Jreissat, M.**, Ta'amnha, M. A., Alomari, S., & Khawajah, A. (2023). Evaluating Usability and User Experience Amid COVID-19: The Case of Innovative Digital Retailers. *International Journal of Technology and Human Interaction (IJTHI)*, 19(1), 1-23. <http://doi.org/10.4018/IJTHI.328090>
- Ta'Amnha, M.; **Jreissat, M.**; Samawi, G.; Jraisat, L.; Bwaliez, O.; Kumar, A.; Garza-Reyes, J. A.; Upadhyay, A. 2023. Interrelationships among Lean HRM Practices and their Impact on Firm Performance: A Comparison between the Jordanian and German Models, *International Journal of Lean Six Sigma*, Vol 00(0), P.0-0.
- Jraisat, L.; **Jreissat, M.**; Upadhyay, A.; Kumar, A. 2022. Blockchain Technology: The Role of Integrated Reverse Supply Chain Networks in Sustainability, *Supply Chain Forum: An International Journal*, Vol 24(1), P.17-30. DOI 10.1080/16258312.2022.2090853.
- Jraisat, L; **Jreissat, M.**; Upadhyay, T.; Kumar, V.; Sarpong, D. 2022. Paradox of strategic partnerships for sustainable value chains: Perspectives of not-for-profit actors, *Business Strategy and the Environment Journal*, Vol31(7), P. 3491– 3508. DOI/10.1002/bse.3101.
- AlSukker, A., Afiouni, N., Etier, M. **Jreissat, M.** 2022. Decision Making Support System for Medical Devices Maintenance Using Artificial Neuro Fuzzy Inference System, *International Journal of Industrial and Systems Engineering*, Vol.1, P. 00-00.DOI. 10.1504/IJISE.2022.10047433.
- Jraisat, L., **Jreissat, M.**, Sajjad, F., Batista, L., Ghalia, T. 2022, No Actor is an Island: The Role of Partnerships in Sustainable Value Chains, *Jordan Journal of Mechanical and Industrial Engineering*, Vol 16 (2), P.163-174.
- AlSukker, A., Afiouni, N., Etier, M. **Jreissat, M.** 2022. Decision Making Support System for Medical Devices' Maintenance Using Fine-tuned KNN Classifier, *International Journal of Mechanical Engineering*, Vol 7 (1), P. 6265-6268.
- Jraisat, L; Upadhyay, A; Ghalia, T.; **Jreissat, M.**; Kumar, V.; Sarpong, D. 2021. Triads in Sustainable Supply-Chain Perspective: Why is a Collaboration Mechanism Needed?, *International Journal of Production Research*, DOI: 10.1080/00207543.2021.1936263.
- **Jreissat, M** & Makatsoris, C. 2021. Towards Consumer Driven Food New Product Development: A Closed-Loop Platform, *International Journal of Computer Integrated Manufacturing*, Vol 35(2), P.183-202, DOI: 10.1080/0951192X.2021.1992652.
- **Jreissat, M** & Gharaibeh, M. 2020. Analysis and Optimisation of the Strain Concentration Factor in Countersunk Rivet Holes via Finite Element and Response Surface Methods, *Multidiscipline Modeling in Materials and Structures Journal*, Vol 17(3), P.537-551.
- Al-Alaween, A., Qamar, A. M., Almomani, H. & **Jreissat, M.** 2020. Enhancements of Special Economic Zone Authority to Globalise its Companies Supply Chain, *International Journal of Supply Chain Management*, Vol 9 (4), P.65-72.
- **Jreissat, M** & Jraisat, L. 2019. Sustainable Dyads in Supply Chain Management: A Qualitative Perspective, *Jordan Journal of Mechanical and Industrial Engineering*, Vol 13(4), P. 277-290.

- Jraisat, L. & **Jeissat, M.** 2019. Collaboration in Supply Chain Management: From Dyads to Triads. In The 24th Annual Conference of The Chartered Institute of Logistics and Transport (UK), Full proceedings, Logistics Research Network (LRN), Northampton, UK, 4 - 6 September 2019, the University of Northampton, P.52-56.
- **Jeissat, M.** & Jraisat, L. 2019. Increasing the Efficiency of New Product Development Using Multivariate Statistical Analysis. In The POMS 30th annual conference: Washington DC, USA, May 2 to May 6, 2019.
- **Jeissat, M.** 2017. Consumers driven innovation process for rapid design and development of new food products, *Journal of Organisational Studies & Innovation Review*, Vol 3(2), P.35-42.
- McCulloch, J., Isaev, S., Bachour, K., **Jeissat, M.**, Wagner, C., & Makatsoris, C. 2017. Linking sensory perceptions and physical properties of orange drinks. In: *IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2017)*, 5-8 October 2017, Banff, Canada.
- Isaev, S., **Jeissat, M.**, Bachour, K., McCulloch, J., Wagner, C. & Makatsoris, C., 2017. Interval-valued sensory evaluation for customised beverage product formulation and continuous manufacturing. At the *2017 IEEE International Conference on Fuzzy Systems*. 9-12 July 2017, Naples, Italy.
- **Jeissat, M.**, Isaev, S., Moreno, M. & Makatsoris, C. 2017. Consumer driven new product development in future re-distributed models of sustainable production and consumption. *Procedia CIRP Journal*, 63(2017), P. 698-703.
- **Jeissat, M.** & Makatsoris, C., 2016. A novel continuous emulsification system for producing beverage emulsions. In *the Manufacturing 2075 International Symposium and Exhibition*. December 7 2016, Cranfield University London, UK. (Poster presentation)
- Isaev, S., **Jeissat, M.**, Wagner, C. & Makatsoris, C., 2016. Linking human and machine-towards consumer-driven automated manufacturing. In *IEEE World Congress on Computational Intelligence, 2016 IEEE International Conference on Fuzzy Systems*. 24-29 July 2016, Vancouver, Canada.
- Isaev, S., **Jeissat, M.** & Makatsoris, C., 2015. Formulated food product and manufacturing process design with a novel continuous flow reactor. In *Proceedings of the 13th International Conference on Manufacturing Research*. 8-10 September 2015, University of Bath, UK.
- **Jeissat, M.** & Makatsoris, C., 2014. A novel knowledge-based framework for predictive food design. In *Proceedings of the 3rd International ISEKI\_Food Conference*. 21-23 May 2014, Athens, Greece.
- **Jeissat, M.** & Makatsoris, C., 2015. A novel emulsification system of producing beverage emulsion. In *Brunel Research Institutes Inaugural Annual Conference*. October 6 2015, Brunel University London, UK.
- **Jeissat, M.** & Makatsoris, C., 2014. An orange beverage emulsion formulation design: a novel case study. In *the 7th Annual Student Research Conference 2014*. 23-26 June 2014, Brunel University London, UK.
- **Jeissat, M.** & Makatsoris, C., 2013. Computer aided liquid food formulation design and manufacture. In *the 6th Annual Student Research Conference 2014*. 24-26 June 2013, Brunel University London, UK.

## Awards

- **First College Prize** for oral presentation in the Advanced Manufacturing and Enterprise Engineering department at the 7<sup>th</sup> Annual Student Research Conference 2014, Brunel University London, UK, 23<sup>rd</sup> - 26<sup>th</sup> June 2014.
- **Travel Grant** from Department of Mechanical, Aerospace and Civil Engineering, Brunel University London, UK, to attend the 3<sup>rd</sup> International ISEKI-Food Conference, 21<sup>st</sup> - 23<sup>rd</sup> May 2014, Athens, Greece.
- **Research Conference Member** of the ResCon'14 committee for the 7th Annual SED Research Student Conference (ResCon), Brunel University London, April 2014- June 2014.
- **Brunel Studentship Fund** from the Advanced Manufacturing and Enterprise Engineering department, Brunel University London, UK, in the 2014/2015 academic year.

## Activities

- **Member** of Jordan Engineers Association (JEA) since 2005.
- **Member** of the organising committee for the 7th Annual SED Research Student Conference (ResCon), Brunel University London, April 2014- June 2014.
- **Member** of SEKI-Food Association (IFA) - European Organisation in 2016.
- **Chairman**\member of the scientific committee of the Jordanian Industrial Engineering Association in the year 2018/2019
- **Member** of the scientific committee of the Mechanical Engineering Division in JEA in the year 2018\2019.
- **Chairman** of the permanent technical committee for packaging materials in The Jordan Standards and Metrology Organization from the year 2018 to 2024.
- **Chairman** of the Social Committee in the Faculty of Engineering at The Hashemite University from the year 2020 to 2023.
- **Member** of different committees in the Faculty of Engineering, such as Strategic Plan and Annual Report and Studies and Consulting committees at The Hashemite University from the year 2020 to 2024.
- Member of Organising\Advisory Committee for The Second International Conference on Industrial, Systems and Manufacturing Engineering: Innovation and New Technologies, 11-13 November 2019, Amman, Jordan.
- **CILT eMember** - Membership Number: 4119124 for one year. Member of the Chartered Institute of Logistics and Transport (CILT) since September 2019.
- **Member** of the Elaboration of National Intellectual Property (IP) committee for Jordan in cooperation with the Industrial Property Protection Directorate, Ministry of Industry, Trade and Supply of the Hashemite Kingdom of Jordan (MIT), Amman, Jordan, in November 2019.
- **Member** of the International Advisory Committee for the 2nd International Conference on Advancing Knowledge from Multidisciplinary Perspectives in Engineering & Technology (ICAKMPET-21), 22-23 December 2021, Istanbul, Turkey.
- **Member** of Organising Committee for the 15th International Conference on Industrial Engineering and Management (ICIEM2023), 16-17 May 2023, Online Conference.
- **Reviewer** in international and local journals since 2018, such as the International Journal of Computer Integrated Manufacturing, Supply Chain Forum: An International Journal, Engineering Optimization and Jordan Journal of Mechanical and Industrial Engineering.
- **Assistant Editor** of Jordan Journal of Mechanical and Industrial Engineering from the year 2018 to 2023.
- **Guest Editor** of Sustainability Journal for the Special Issue on “*Industry 4.0 Applications and System Solutions in Supply Chain Management of Sustainability*” in the year 2021/2022.
- **Reviewer** in 29th EurOMA Conference, Brilliance in resilience: operations and supply chain management’s role in achieving a sustainable future, 1-6 June 2022, Berlin, Germany, [www.euroma2022.org/](http://www.euroma2022.org/).

## References

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- More references are available upon your request.