

Imad Alsyouf, Ph.D. Professor

Department of Industrial Engineering and Engineering Management
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Date of birth: 31.10.1965.

Citizenship: Jordanian and Swedish

Professional Profile Summary:

Dr. Imad Alsyouf is a distinguished Professor of Industrial Engineering, having over three decades of comprehensive experience in academia and industry. Holding a Ph.D. from Linnaeus University, Sweden, he specializes in reliability engineering and maintenance management. His academic contributions are internationally praised, as demonstrated by his inclusion among the top 2% of cited scientists in the Stanford University AD Scientific Index for two consecutive years. As the Director of the Sustainability Office at the University of Sharjah, he introduced the sustainability circles concept, placing the university as an example of sustainability excellence in higher education on a regional and global scale. Dr. Alsyouf has an impressive publication record, with 102 Scopus-indexed documents, significantly advancing the fields of sustainability, industrial Engineering, and engineering management. In his commitment to research innovation, Dr. Alsyouf founded the Sustainable Engineering Asset Management (SEAM) research group at the University of Sharjah. This initiative has become a cornerstone for interdisciplinary research, with numerous research projects, attracting significant funding with national and international collaborations. An exceptional educator, Dr. Alsyouf is known for his teaching excellence. He has developed and taught over 25 diverse Industrial Engineering and Engineering Management (IEEM) undergraduate and postgraduate courses, gaining outstanding student evaluations. His educational impact is further evidenced by his role in supervising several Ph.D. and Master students, with three of them successfully earning their doctorates under his supervision. This achievement underscores his capability to guide and inspire the next generation of engineers and researchers.

His research encompasses a broad spectrum of topics within industrial engineering and engineering management, including reliability engineering, maintenance management, sustainability, productivity enhancement, continuous improvement, total quality management, engineering asset management, and multicriteria decision-making. Additionally, his expertise extends to organizational excellence and other pertinent areas in the field.

Academic Profile

| As of August 31, 2024. | Scopus | Research Gate | Google Scholar |
|------------------------|--------|---------------|----------------|
| No. of Documents | 102 | 92 | 128 |
| H-Index | 18 | 20 | 22 |

| | | | |
|------------------|------|------|------|
| No. of Citations | 1672 | 2226 | 3325 |
|------------------|------|------|------|

Recognized as one of the top 2% of cited scientists by Stanford University in AD Scientific Index in 2022 and 2023, see

https://www.adscientificindex.com/?con=&tit=&tit_sub=&country_code=&q=imad+alsyouf.

Academic Degrees

- **Ph.D. - Doctor of Philosophy, Terotechnology (Maintenance and Reliability Engineering)**, 2004. Linnaeus University School of Technology & Design, Sweden.
- **Licentiate in Engineering, Terotechnology, 2002**, Linnaeus University, School of Industrial Engineering, Sweden.
- **M.Sc. - Master of Science, Industrial Engineering**, 1995, Faculty of Graduate Studies, University of Jordan, Jordan.
- **B.Sc. - Bachelor of Science, Mechanical Engineering**, 1989, Faculty of Engineering and Technology, University of Jordan, Jordan.

Professional Experience

- **University of Sharjah (UAE)**, 08/06/2020 – Present, Full Professor of Industrial Engineering at the Industrial Engineering and Engineering Management Department.
- **University of Sharjah (UAE)**, 10/01/2010 – 08/06/2020, Associate professor of Industrial Engineering at the Industrial Engineering and Engineering Management Department.
- **Linnaeus University (Sweden)**, 21/12/2009 - 01/01/2012, Associate Professor of Mechanical Engineering at the Mechanical Engineering Department (On leave from 10/01/2010).
- **Linnaeus (Växjö) University (Sweden)**, 04/05/2004 - 21/12/2009, Assistant professor at the Department of mechanical engineering.
- **Linnaeus (Växjö) University (Sweden)**, 01/01/2000 - 22/04/2004, University lecturer and Research Assistant at the Department of mechanical engineering.
- **The University of Jordan (Jordan)**, 03/09/1995 - 01/09/1997, University lecturer at the Industrial Engineering Department, Faculty of Engineering and Technology.
- **Thyssenkrupp Jordan Lift and Crane Manufacturing Company (JOLIFT)** (01/02/1994 - 01/09/1995, Director of the planning department (Jordan).
- **Own engineering consultation office**, 01/09/1992 - 01/02/1994, Mechanical and consultant engineer (Jordan).
- **Thyssenkrupp Jordan Lift and Crane Manufacturing Company (JOLIFT)**, 01/11/1989 - 01/09/1992, Production engineer (Jordan).

Leadership Roles

- **University of Sharjah (UAE)**, 22/10/2017 – 31/01/2024, Director of the University Sustainability Office.
- **UI GreenMetric network**: 2017 – 2024, Member of steering committee and National Coordinator of UI GreenMetric in UAE, 2017-2024.

- **University of Sharjah (UAE)**, 15/04/2015 – 31/08/2021, Founder and Coordinator of Sustainable Engineering Asset Management (SEAM) Research Group, Research Institute of Science and Engineering (RISE), University of Sharjah
- **University of Sharjah (UAE)**, 15/02/2015 – 31/08/2016, Chairman of the Industrial Engineering and Engineering Management Department.
- **Linnaeus University (Sweden)**, 2005 -2006, Coordinator of an education program called "Managing Technology and Projects" at the Mechanical Engineering Department.
- **Thyssenkrupp Jordan Lift and Crane Manufacturing Company (JOLIFT)** (01/02/1994 - 01/09/1995, Director of the planning department (Jordan).

Publications

Published Journal Article

For an updated list please see my Scopus profile.

<https://www.scopus.com/authid/detail.uri?authorId=6508126366>

1. Alsyouf, L., Alsyouf, I., Obaideen, K. Advancing water security in arid regions: A technological and bibliometric study on integrating hydro panels in buildings for sustainable development goals. *Energy Nexus*, 2024, 15, 100312.
2. Abu Dabous, S., Shikhli, A., Shareef, S., Mushtaha, Emad S.N, Obaideen, K., Alsyouf, I. Fire prevention and mitigation technologies in high-rise buildings: A bibliometric analysis from 2010 to 2023. *Ain Shams Engineering Journal*, 2024, 103010
3. Alhammadi, A., **Alsyouf, I.**, Semeraro, C., Obaideen, K., The role of industry 4.0 in advancing sustainability development: A focus review in the United Arab Emirates. *Cleaner Engineering and Technology*, 2024, 18,100708.
4. Hamdan, A., Hamdan, S., **Alsyouf, I.**, Al-Ali, S., Bettayeb, M. Enhancing sustainability performance of universities: A DMAIC approach. *Systems Research and Behavioral Science*, 2024, 41(1), pp. 153-172.
5. Hamdan, S., Cheaitou, A., Shikhli, A., **Alsyouf, I.**, Comprehensive quantity discount model for dynamic green supplier selection and order allocation. *Computers and Operations Research* 2023, 160,106372.
6. Bashir, H., Araci, Z., Obaideen, K., **Alsyouf, I.** An approach for analyzing and visualizing the relationships among key performance indicators for creating sustainable campuses in higher education institutions. *Environmental and Sustainability Indicators*, 2023, 19,100267.
7. Shareef, S., Mushtaha, E., Abu Dabous, S., **Alsyouf, I.** Holistic analysis for the efficiency of the thermal mass performance of precast concrete panels in hot climate zones. *Engineering, Construction and Architectural Management*, 2023 (Article in Press).
8. Abu Dabous, S., Ibrahim, T., Shareef, S., Mushtaha, E., **Alsyouf, I.** Sustainable façade cladding selection for buildings in hot climates based on thermal performance and energy consumption. *Results in Engineering*, 2022, 16,100643.
9. Mushtaha E., Abu Dabous S., **Alsyouf I.**, Ahmed A., Raafat Abdraboh N. The challenges and opportunities of online learning and teaching at engineering and

theoretical colleges during the pandemic. *Ain Shams Engineering Journal*, 13(6), 2022.

10. Hamdan, S., Cheaitou, A., Jouini, O., Granberg, T.A., Jemai, Z., **Alsyouf, I.**, Bettayeb, M., Josefsson, B. Central Authority–Controlled Air Traffic Flow Management: An Optimization Approach. *Transportation Science*, 2022, 56(2), pp.299-321.
11. Mushtaha, E., **Alsyouf, I.**, Hamad, R., Elmualim, A., Maksoud, A., Yahia, M.W. Developing design guidelines for university campus in hot climate using Quality Function Deployment (QFD): the case of the University of Sharjah, UAE. *Architectural Engineering and Design Management*, 2022, 18(5), pp.593-613.
12. Emad Mushtaha*, Imad Alsyouf, Maamar Bettayeb, Bushra Hussein Al Jaberi, Maryam AlMallahi. Managing University of Sharjah Setting and Infrastructure Towards a Sustainable and Livable Campus. *Journal of Sustainability Perspectives*. 2(2), 2022.
13. Alzghoul, A., Jarndal, A., Alsyouf, I., ...Ali, M.A., AlBaiti, S. On the Usefulness of Pre-processing Methods in Rotating Machines Faults Classification using Artificial Neural Network. *Journal of Applied and Computational Mechanics*, 7 (1), 2021.
14. Chookah, N.A., Mushtaha, E., Alsyouf, I., Alkhalidi, A. Sustainable neighborhood assessment: Evaluating residential sustainability in Sharjah city's old neighborhoods using the UN-habitat's sustainable neighborhood principles. *Civil Engineering and Architecture*, 9(4), 2021.
15. Mushtaha, E., Shareef, S., Alsyouf, I., ...Abdelrahim, M., Albannay, S. A study of the impact of major Urban Heat Island factors in a hot climate courtyard: The case of the University of Sharjah, UAE. *Sustainable Cities and Society*, 69, 2021.
16. Abu Dabous, S., Ibrahim, F., Feroz, S., Alsyouf, I. Integration of failure mode, effects, and criticality analysis with multi-criteria decision-making in engineering applications: Part II – Non-manufacturing industries. *Engineering Failure Analysis*, 122, 2021.
17. Abu Dabous, S., Ibrahim, F., Feroz, S., Alsyouf, I. Integration of failure mode, effects, and criticality analysis with multi-criteria decision-making in engineering applications: Part I – manufacturing industries. *Engineering Failure Analysis*, 122, 2021.
18. Alsyouf, I., Hamdan, S., Shamsuzzaman, M., Haridy, S., Alawaysheh, I. On preventive maintenance policies: a selection framework. *Journal of Quality in Maintenance Engineering*, 27(1), 2021.
19. Cheaitou, A., Hamdan, S., Larbi, R., Alsyouf, I. Sustainable traveling purchaser problem with speed optimization. *International Journal of Sustainable Transportation*, 15(8), 2021.
20. Alsyouf, I., Alsuwaidi, M., Hamdan, S., Shamsuzzaman, M. Impact of ISO 55000 on organisational performance: evidence from certified UAE firms. *Total Quality Management and Business Excellence*, 32(1-2), 2021.
21. Alawaysheh, I., Alsyouf, I., Tahboub, Z.E.-A., Almahasneh, H.S. Selecting maintenance practices based on environmental criteria: a comparative analysis of theory and practice in the public transport sector in UAE/DUBAI. *International Journal of Systems Assurance Engineering and Management*, 11(6), 2020.

22. Al Hawi, T., Alsyouf, I. A proposed innovation model for public organizations: empirical results from federal government innovation experts in the United Arab Emirates. *International Journal of Systems Assurance Engineering and Management*, 11(6), 2020.
23. Mushtaha, E., Alsyouf, I., Al Labadi, L., ...Khatib, N., Al Mutawa, M. Application of AHP and a mathematical index to estimate livability in tourist districts: The case of Al Qasba in Sharjah. *Frontiers of Architectural Research*, 9(4), 2020.
24. AlZawati, O.K., Bashir, H., Alsyouf, I. Modelling and analyzing of critical success factors for implementing UAE's Government Excellence Model in the public sector: an ISM and Fuzzy-MICMAC approach. *International Journal of Systems Assurance Engineering and Management*, 11(6), 2020.
25. AlZawati, O.K., Alsyouf, I., Bashir, H. An exploratory study of common issues and key differences between the European Foundation for Quality Management and the United Arab Emirates Public Sector Excellence Model: public sector organisation results. *International Journal of Systems Assurance Engineering and Management*, 11(6), 2020.
26. Salim, A.M., Alsyouf, I. Development of renewable energy in the GCC region: status and challenges. *International Journal of Energy Sector Management*, 14(6), 2020.
27. Shamsuzzaman, M., Haridy, S., Alsyouf, I., Rahim, A., Design of economic X chart for monitoring electric power loss through transmission and distribution system. *Total Quality Management and Business Excellence*, 31(5-6), 2020.
28. Haridy Salah; Shamsuzzaman Mohammad; Alsyouf Imad; Mukherjee Amitava. An Improved Exponentially Weighted Moving Average Scheme for Monitoring Attributes. *The International Journal of Production Research (TPRS)*, 58(3), 2020.
29. Emad Mushtaha, Omar Hassan Omar, Dua S. Barakat, Hessa Al-Jarwan, Dima Abdulrahman, Imad Alsyouf. Public involvement in the Design of Public Projects. *Open House International: Urban Transformations in Rapidly Growing Context*, 44(4), 2019.
30. Mohammad Shamsuzzaman, Salah Haridy, Ahmed Maged and Imad Alsyouf. Design and application of dual-EWMA scheme for anomaly detection in injection moulding process. *Computers and Industrial Engineering*, 138, 2019.
31. Ahmed Maged, Salah Haridy, Mohammad Shamsuzzaman, **Imad Alsyouf**, Roubi Zaied (2018). Statistical Monitoring and Optimization of Electrochemical Machining using Shewhart Charts and Response Surface Methodology. *International Journal of Engineering Materials and Manufacture*. Vol 3 No 2 (2018).
<https://doi.org/10.26776/ijemm.03.02.2018.01>.
32. Alsyouf, I., Kumar, U., Al-Ashi, L., Al-Hammadi, M. Improving baggage flow in the baggage handling system at a UAE-based airline using lean Six Sigma tools. *Quality Engineering*, 30(3), 2018.
33. Shamsuzzaman, M., Haridy, S., **Alsyouf, I.**, and Abdur Rahim (2018). *Design of economic X-bar chart for monitoring electric power loss through transmission and distribution system*. *Total Quality Management & Business Excellence*, Vol. 29, No. 4, pp. 301-314, <https://doi.org/10.1080/09537287.2018.1426132>

34. M. Shamsuzzaman, M. Alzeraif, **I. Alsyouf** and Michael B.C. Khoo (2018). Using Lean Six Sigma to improve mobile order fulfillment process in a telecom service sector. *Production Planning & Control*, 29(4), pp. 301-314.
35. **I. Alsyouf**, M. Shamsuzzaman, G. Abdelrahman, M. Al-Taha (2016). Improving Reliability of Repairable Systems Using Preventive Maintenance and Time-Between-Failures Monitoring, *European Journal of Industrial Engineering*, Vol. 10, No. 5, pp. 596-617.
36. M. Shamsuzzaman, M.B.C. Khoo, S. Haridy, and **I. Alsyouf** (2016). An Optimization design of the combined Shewhart-EWMA control chart. *International Journal of Advanced Manufacturing Technology*, Vol. 86, pp.1627-1637. DOI 10.1007/s00170-015-8307-4. (Accepted: 22 December 2015 /Published online: 9 January 2016)
37. **Alsyouf, I.**, Al-Alami, A., Saidam, A. (2015). "Implementing Product Design Development Methodology for Assessing and Improving the Performance of Products." *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Volume 9, Issue 3, pp 225-234. (DOI: 10.1007/s12008-015-0281-4), Springer.
38. M. Shamsuzzaman, M. B. C. Khoo, S. Haridy, & **I. Alsyouf** (2014). An optimization design of the 3-EWMA scheme for monitoring mean shifts. *The International Journal of Advanced Manufacturing Technology* vol. 73 (104). DOI 10.1007/s00170-014-6048-4. (Accepted on 7 of June 2014), Springer.
39. Brahimi, N., Dweiri, F., **Alsyouf, I.**, & Khan, S. (2013). Implementing Cooperative Education in an Industrial Engineering Program in the United Arab Emirates: Experience and Lessons learned. *International Journal of Engineering Education*. (29, 5, 1238-1247).
40. Nadjib, B., Dweiri, F., **Alsyouf, I.** and & Khan, S. (2013). Cooperative Education in an Industrial Engineering Program. *Procedia – social and behavioral sciences*, Elsevier, Vol.102, pp. 446 – 453.
41. **Alsyouf, I.**, Al-Araidah, O., Tates, M., & Ciganovic, R. (2012). A Multi-Criteria Decision-Making framework for Assessing the Quality and Cost of Facility Layout Alternatives: a Case Study. *The Proceedings of the Institution of Mechanical Engineers, Part B, Journal of Engineering Manufacture*. February 2012, vol. 226, 2: pp. 353-364, A SAGE Publications journal.
42. **Alsyouf, I.**, Al-Aomar, R., Al-Hamed, H. & Qiu, X. (2011). A Framework for Assessing the Cost Effectiveness of Lean Tools. *European Journal of Industrial Engineering*, Vol. 5, No. 2, pp. 170-197.
43. Diabat, A., Al-Araidah, O., **Alsyouf, I.**, & Duh, C. (2011). A Heuristic Approach to Scheduling Jobs in Machining Centers Equipped with Automated Pallet Changers. *The International Journal of Advanced Operations Management (IJAOM)*, Vol. 3, No. ¾, pp. 343-353.
44. **Alsyouf, I.** (2009). Maintenance practices in Swedish industries: Survey results. *International Journal of Production Economics*, Vol. 121, pp. 212-223, doi:10.1016/j.ijpe.2009.05.005.
45. **Alsyouf, I.** (2007). The Role of Maintenance in Improving Company Productivity and Profitability. *International Journal of Production Economics*, Vol. 105, pp. 70-78.
46. **Alsyouf, I.** (2006). Measuring Maintenance Performance using a Balanced Scorecard approach. *Journal of Quality in Maintenance Engineering*, Vol. 12, No. 2, pp. 133-149.
47. Al-Najjar, B. & **Alsyouf, I.** (2004). Enhancing a Company's Profitability and Competitiveness using Integrated Vibration-based Maintenance: A Case Study. *European Journal of Operational Research* Vol. 157, pp. 643-657.
48. Al-Najjar, B. & **Alsyouf, I.** (2003). Selecting the Most Efficient Maintenance Approach using Fuzzy Multiple Criteria Decision Making. *International Journal of Production Economics*, Vol. 83/3, pp. 81-96.

49. Al-Najjar, B. & **Alsyouf, I.** (2000). Improving Effectiveness of Manufacturing Systems using Total Quality Maintenance. *Integrated Manufacturing Systems*, Vol. 11, No. 4, 2000. MCB University Press.

Published in national and international conference Proceedings
For an updated list please see my Scopus profile.

<https://www.scopus.com/authid/detail.uri?authorId=6508126366>

1. Purba, Helena J., Send mail to Purba H.J., Azahari, Delima H., Dani, Fatimatuz Z.D.P., Alsyouf, Imad, Masmoudi, Malek, Obaideen, Khaled. Enhancing rice resilience and sustainability: A bibliometric analysis of innovations for food security and environmental conservation. *BIO Web of Conferences Open Access Volume 11912 July 2024 Article number 05003*, 2nd International Conference on Agriculture, Natural Resources, and Rural Development : Enabling Policies Towards Resilient Agriculture and Sustainable Rural Development, ICANaRD 2023Bogor17 October 2023through 18 October 2023Code 201024.
2. Alhammadi, A., Semeraro, C., Obaideen, K., **Alsyouf, I.** (2023). Industry 4.0 Technologies and Sustainable Development Goals (SDGs): Covered Publications and Ranking. In: Borgianni, Y., Matt, D.T., Molinaro, M., Orzes, G. (eds) *Towards a Smart, Resilient and Sustainable Industry. ISIEA 2023. Lecture Notes in Networks and Systems*, vol 745. Springer, Cham. https://doi.org/10.1007/978-3-031-38274-1_4.
3. Abu-Abdoun, D., Alsyouf, I., Mushtaha, E., Ibrahim, I., Al-Ali, M. Developing and Designing an Innovative Assistive Product for Visually Impaired People: Smart Cane. *Advances in Science and Engineering Technology International Conferences, ASET 2022*.
4. Alsyouf, I., Shikhli, A., Almaazmi, M., Obaideen, K., Ibrahim, F. Analyzing Factors Associated with Road Accidents Involving Taxi Drivers in the United Arab Emirates. *The 6th International Conference on System Reliability and Safety, ICSRS 2022, 2022*, pp. 365–370.
5. Al Jaber, B.H., Sedaghat, M.M., Almallahi, M.N., Alsyouf, I., Ibrahim, I.A.S. The Role of Covid-19 in Moving Towards a Paperless Campus: The Case of University of Sharjah. *Advances in Science and Engineering Technology International Conferences, ASET 2022*.
6. Aldawoud, A., Aldawoud, A., Alsyouf, I., Haj Assad, M.E., Hassan Omar, O. Comparative Study Investigating Compressed Natural Gas, Diesel, and Gasoline as Fuel for the Transportation Sector: A Case of UAE. *Advances in Science and Engineering Technology International Conferences, ASET 2022, 2022*.
7. Shikhli, S., Shikhli, A., Jarndal, A., Alsyouf, I., Cheaitou, A. Towards Sustainability in Buildings: a Case Study on the Impacts of Smart Home Automation Systems. *Advances in Science and Engineering Technology International Conferences, ASET 2022, 2022*.

8. Mousa, A., Alkasrawi, M., Abdelsalam, E., Salameh, T., Alsyouf, I. Biofuels Policy and Future in Jordan. Publisher: IEEE, Th 12th International Renewable Engineering Conference, IREC 2021, Amman Jordan, 14-15 April 2021.
9. Mahmoud, M.S., Jarndal, A., Alzghoul, A., Alsyouf, I., Hamid, A.K. Driver Drowsiness Detection System using Deep Learning based on Visual Facial Features. Proceedings - International Conference on Developments in eSystems Engineering, DeSE, 2021, 2021-December, pp. 453–458.
10. Alzawati, O.K., Bashir, H., Alsyouf, I. A Hierarchical Graphical Model of Critical Success Factors for Implementing the UAE's Government Excellence. IEEE International Conference on Industrial Engineering and Engineering Management, IEEM 2021, 2021, pp. 1265–1269.
11. Bashir, H., Alsyouf, I., Alshamsi, H., Abdel-Razek, R.H., Gardoni, M. The Association between Structural Organization Characteristics and Innovation in the Context of the UAE Service Sector: An Empirical Investigation, Publisher: IEEE, The 7th International Conference on Industrial Engineering and Applications, ICIEA, Bangkok, Thailand, 16-21 April 2020.
12. Ibrahim, F., Dabous, S.A., Alsyouf, I. Bridge risk assessment using integrated failure mode, effects, and criticality analysis and VIKOR approach. Publisher: IEEE, 2020 Advances in Science and Engineering Technology International Conferences (ASET) Dubai, United Arab Emirates 4 Feb.-9 April 2020.
13. Imad Alsyouf. Sustainability Circles the way to Sustainability Excellence in Institutions of Higher Education. Publisher: IEEE, Advances in Science and Engineering Technology International Conferences (ASET). Dubai, United Arab Emirates, 4 Feb.-9 April 2020.
14. Abdalla Mahmoud Salim and Imad Alsyouf. Renewable Energy in the United Arab Emirates: Status and Potential. Publisher: IEEE, Advances in Science and Engineering Technology International Conferences (ASET). Dubai, United Arab Emirates, 4 Feb.-9 April 2020.
15. Bashir, H. Shamsuzzaman, M., Haridy, S., and Alsyouf, I. (2020) “Lean Warehousing: A Case Study in a Retail Hypermarket. The 10th International Conference on Industrial Engineering and Operations Management, Dubai, UAE, March 10-12, 2020.
16. Bashir, H., Haridy, S., Shamsuzzaman, M., Alsyouf, I. A practical tool for scheduling interrelated activities. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
17. Hamdan, A., Hamdan, S., Cheaitou, A., Alsyouf, I., Lundberg, J. Routing of unmanned aerial vehicles: State of art. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
18. Al Shehni, A., Cheaitou, A., Alsyouf, I., Hamdan, S., Larbi, R. Integrated production and maintenance planning: A comparison between block policies. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.

19. Haridy, S., Shamsuzzaman, M., Alsyouf, I., ...Magede, A., Bhuiyanf, N. Optimal EWMA chart for monitoring failure rate. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
20. Haridy, S., Shamsuzzaman, M., Alsyouf, I., ...Magede, A., Bhuiyanf, N. A salient feature for enhancing the detection speed of EWMA scheme. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
21. Shamsuzzaman, M., Haridy, S., Bashir, H., Alsyouf, I. Monitoring a cold rolling process using X&EWMA charts. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
22. Bingamil, A., Alsyouf, I., Cheaitou, A., Alawaysheh, I. Selecting a condition monitoring technology to monitor automotive lubrication system using fuzzy-TOPSIS. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
23. Khamis, K., Hamdan, S., Cheaitou, A., Alsyouf, I. A sustainable travelling purchaser problem mode, the International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
24. Shamsuzzaman, M., Haridy, S., Alsyouf, I., Bashir, H. Optimization design of economic EWMA control chart based on random process shifts. The International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
25. Eltarabishi, F., Omar, O.H., Alsyouf, I., Bettayeb, M. Multi-criteria decision making methods and their applications-A literature review, the International Conference on Industrial Engineering and Operations Management, 2020. Dubai, UAE, March 10-12, 2020.
26. Khalifa Al-Suwaidi and Imad Alsyouf. Productivity in Public Sector Services: Results of a Systematic Literature Review. Proceedings of the 10th International Conference on Industrial Engineering and Operations Management. Dubai, UAE, March 10-12, 2020.
27. Hamdan, S., Jouini, O., Cheaitou, A., ...Alsyouf, I., Bettayeb, M. Optimal Air Traffic Flow Management with Carbon Emissions Considerations. Advances in Intelligent Systems and Computing, 2020.
28. Harbi Sandouka, K.M., Alsyouf, I. Productivity Improvement of Duct Workshops in the Modular Systems Division at BK Gulf LLC, IEEE Xplore 2019 Advances in Science and Engineering Technology International Conferences, ASET Dubai, UAE. 26 March-10 April 2019.
29. Ali, M.A., Bingamil, A.A., Jarndal, A., Alsyouf, I. The influence of handling imbalance classes on the classification of mechanical faults using neural networks, 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019. Manama, Bahrain, 15-17 April 2019.
30. Sadeque Hamdan, Anwar Hamdan, Ahmed Bingamil, Hassan Al-Zarooni, Hamdi Bashir, **Imad Alsyouf**. Investigating Delay Factors in Electrical Installation Projects using Fuzzy TOPSIS. Accepted for publication in The 8th International Conference on

Modeling, Simulation and Applied Optimization (ICMSAO'2019) held in Bahrain, April 15-17, 2019.

31. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Zied Jemai, **Imad Alsyouf**, Maamar Bettayeb. An Environmental Air Traffic Flow Management Model. Accepted for publication in The 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'2019) held in Bahrain, April 15-17, 2019.
32. Muhammad Awais Ali, Ahmed Ameen Bingamil, Anwar Jarndal, **Imad Alsyouf**. The Influence of Handling Imbalance Classes on the Classification of Mechanical Faults Using Neural Networks. Accepted for publication in The 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'2019) held in Bahrain, April 15-17, 2019.
33. Abeer Shaker Abualsaud, Amna Ahmed Alhosani, Aysha Youssef Mohamad, Fatimah Nasser Al Eid, and **Imad Alsyouf**. Using Six Sigma DMAIC Methodology to Develop a Facility Layout for a New Production Line, accepted for publication in the 8th International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'2019) held in Bahrain, April 15-17, 2019.
34. Anwar Hamdan, Nada Murad, Marah Abdelrazeq, Sadeque Hamdan and **Imad Alsyouf**, Maamar Bettayeb. Measuring sustainability behaviour at University of Sharjah: A Gender Comparison. The 2nd AUE International Research Conference on “Sustainable Development and Social Responsibility” on November 13-15, 2018, the American University in the Emirates. AUEIRC18.
35. **Alsyouf**, A. Salti, B. Hamed, A. Abdelsalam. Using Six-Sigma DMAIC Methodology to Systematically Improve the Performance of Physical Plants at an Educational Institute. The 2018 IEOM South Africa Conference to be held at the Saint George Hotel, Pretoria during October 30 - November 1, 2018.
36. Sadeque Hamdan, Maitha Alsuwaidi, **Imad Alsyouf**, Mohamed Shamsuzzaman. Monitoring and Assessing the Impact of Implementing ISO 55000 in an Educational Institute. The 2018 IEOM South Africa Conference to be held at the Saint George Hotel, Pretoria during October 30 - November 1, 2018.
37. Tariq Al Hawi, **Imad Alsyouf**, Michael Gardoni. Innovation Models for Public and Private Organizations: Literature Review. The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), 16-19 December, 2018 in Bangkok, Thailand.
38. Iyad Nouri Alawaysheh, and **Imad Alsyouf** Environmental Sustainability in Maintenance Management of Public Transport Systems: Literature Review. The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), 16-19 December, 2018 in Bangkok, Thailand.
39. Ola AlZawati, Osama Hamad, Imad Alsyouf. Business Excellence Models Assessments, will Subject Matter Expert improve assessment outcome? IEOM **3rd North American IEOM Conference, Washington, DC, USA, September 27-29, 2018**, University of the District of Columbia (UDC) Campus.
40. Abdelrahman, G., Shamsuzzaman, M, Alsyouf, I., (2018). Integrating Quality Control Charts with Maintenance: a Brief Literature Review. Accepted at the 2nd IEOM European International Conference on Industrial Engineering and Operations Management, Paris, France during July 26-27, 2018.

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42. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Zied Jemai, **Imad Alsyouf** and Maamar Bettayeb. On Fairness in the Network Air Traffic Flow Management with Rerouting. The 9th International Conference on Mechanical and Aerospace Engineering (ICMAE 2018), Budapest, Hungary, 10-13 July, 2018. To be published by IEEE Proceedings.
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44. Sadeque Hamdan, Ali Cheaitou, Rim Larbi and **Imad Alsyouf (2018)**. *Moving toward sustainability in managing assets: A sustainable travelling purchasing problem.* The 4th International Conference on Logistics Operations Management, that took place in Le Havre, France, April 10-12, 2018.
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46. Bingamil, A., **Alsyouf, I.**, and Cheaitou, A. (2017). *Condition Monitoring Technologies, Parameters and Data Processing Techniques for Fault Detection of Internal Combustion Engines: a literature review.* Presented at the International Conference on Electrical and Computing Technologies and Applications, 2017 (ICECTA'2017), November 21-23, 2017. American University of Ras Al Khaimeh (AURAK), UAE.
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49. Hamdan, S., Larbi, R., Cheaitou, A., and **Alsyouf, I.** (2017). *Green Traveling Purchaser Problem Model: A Bi-Objective Optimization Approach.* The Seventh International Conference on Modeling, Simulation, and Applied Optimization - 2017 (ICMSAO'17), the American University of Sharjah, Sharjah, United Arab Emirates, April 4-6, 2017. Published in IEEE Xplore: 29 May 2017. DOI: 10.1109/ICMSAO.2017.7934841
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51. Shamsuzzaman, M., **Alsyouf, I.**, and Ali, A. (2015). *Optimization design of &EWMA control chart for minimizing mean number of defective units per out-of-control case.*

- IEEE International Conference on Industrial Engineering and Operations Management, December 6-9, 2015, Singapore.
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 55. **Alsyouf, I.**, Humaid, F., Al Kamali, S. (2014). *Mishandled Baggage Problem: Causes and Improvement Suggestions*. The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2014), Malaysia, 9-12 December 2014.
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 60. **Alsyouf, I.** & El-Thalji, I. (2008). *Maintenance Practices in Wind Power Systems: A Review and Analysis*. The European Wind Energy Conference & Exhibition Brussels Expo, Belgium, 31 March - 3 April 2008.
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72. Al-Najjar, B. & **Alsyouf, I.** (2000). *Selection the most efficient maintenance-approach using fuzzy multiple criteria decision-making.* The Conference of COMADEM 2000, 3-8 Dec., 2000, Houston, Texas, USA.
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2. **Alsyouf, I.** (2011). Reliability and operation and maintenance strategies. *'Wind energy systems: Optimizing design and construction for safe and reliable operation.* pp. 303-328. Edited by J D Sørensen, Aalborg University and J N Sørensen, Technical University of Denmark. Woodhead Publishing Series in Energy No. 10, Woodhead Publishing Limited. ISBN 1 84569 580 1, ISBN-13: 978 1 84569 580 4.
3. **Alsyouf, I.**, Ingwald A. and Al-Najjar B. (2004), *A Practical Model for Selecting and Improving the Most Cost-Effective Maintenance Policy: Survey Results*, (Chapter in a

book), "Cost effective maintenance for competitive advantages", Vaxjo university (Acta Wexionensia), Sweden ISBN: 91-7636-401-1.

4. Al-Najjar, B., **Alsyouf, I.** & Ingwald, A. (2005). The Impact of Internal Effectiveness on Company Competitiveness & Profitability, *Creation Of Industrial Competitiveness CIC 2001-2004*. Sweden, Vaxjo University (Acta Wexionensia) ISBN: 91-7636-467-4.
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Technical and research report

- i. Al-Najjar, B. & **Alsyouf, I.** (2000). *On the selection of the most informative maintenance approach*. Report Nr 1 2000, ISBN 91-7636-287-6, ISSN 1404-045X, Vaxjo University, Sweden.
- ii. Al-Najjar, B. & **Alsyouf, I.** (2000). *Total Quality Maintenance (TQMain.): A Tool to Improve Manufacturing Systems Effectiveness*. Report Nr 10 2000, ISBN 91-7636-263-9, ISSN 1404-045X, Vaxjo University, Sweden.
- iii. Al-Najjar, B., **Alsyouf, I.**, Salgado, E., Khoshaba, S. & Faagorg, K. (2001). The economic importance of maintenance planning when using vibration-based maintenance. Project report, Vaxjo University, Terotechnology. Vaxjo University, Sweden 2001.
- iv. Al-Najjar, B., **Alsyouf, I.** & Ingwald, A. (2004). Model for selecting a cost effective maintenance policy. Project report, Vaxjo University, Sweden, 2004.

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- i. Alsyouf, I. (2004). Cost effective maintenance for competitive advantages- Thesis for the degree of doctor of philosophy (Terotechnology), School of industrial engineering, Vaxjo University Press, Acta Wexionensia, Sweden, ISBN: 91-7636-401-1.
- ii. Alsyouf, I. (2001). The role of Maintenance in Company's Competitiveness and Profitability Improvements- Thesis for the Degree of Licentiate of Engineering, School of industrial engineering Vaxjo University, Sweden, ISBN: 91-7636-314-7. Second Edition (2004).
- iii. Alsyouf, I. (1995). "The Effect of Shot Peening on The Mechanical Properties of Some of the Metals Used in Air Craft Industry", Thesis Submitted In Partial Fulfillment of the Requirement for the Degree of Master of Science in Industrial Engineering, Faculty of Graduate Studies, University of Jordan, January 1995.

Popular-scientific articles

- i. Alsyouf Imad, (2006), Lönsamt sätta siffror på underhåll, Process Nordic: Nyheter och trender i nordisk processindustri, 2006, No.8, page 13, /www.processnet.se.
- ii. Alsyouf Imad, (2006), Industriunderhåll- ett konkurrensmedel, Underhåll & Driftsäkerhet, Nr 3/2006, page 12-13. (www.maintenancenet.se).
- iii. Alsyouf Imad, (2005), Underhåll ökar företagets konkurrenskraft, Underhåll & Driftsäkerhet, Nr 4/2005, page 16-18. (www.maintenancenet.se).
- iv. Alsyouf Imad, (2004), Underhåll ökar företagets konkurrenskraft, Teknik & vetenskap, Volume 20 Nr 4/2004, page 42. (www.forskning.com).

Invited speaker

- i. Panelist at "Global Inter-University Forum on sustainability" organized by University of Sharjah, UCLA, and Oxford at COP28 World Climate Action Summit Day 3, the second of December 2023.
- ii. Panelist at "Empowering Change: Higher Education Institutions and the UN Sustainable Development Goals" organized by Abu Dhabi University at COP28 World Climate Action Summit Day 2, the first of December 2023.
- iii. Representing the University of Sharjah on behalf of the Chancellor as a panelist at the International Forum for Government Communication in the session "The Role of Media and Education in Achieving the Sustainable Development Goals" 13-14 September, 2023.
- iv. Panelist at "Sharjah Prize for Library Literature: Sharjah Public Library" September 13-14, 2023, Sharjah.
- v. Panelist at the Global Sustainable Development Congress held from 30 May – 1 June 2023 at KAUST in Saudi Arabia organized by THE and KAUST.
- vi. Panelist at the event titled "Make it Sustainable" Forum, organized by Ajman University in partnership with the Ministry of Climate Change and Environment, on April 26, 2023, at Ajman University.
- vii. Speaker at the Conference held by UTEK "Underhåll- ett konkurrensmedel" in Svenska Mässan in Göteborg on 15 March 2006.
- viii. Speaker at the conference held by the Scandinavian Reliability Engineers (SRE) and Scandinavian Organization of Logistics Engineers (SOLE) on the 10th of November 2004, Malmo Sweden.
- ix. Speaker at a Seminar Day held by Metso Drives AB in Göteborg on the 18th of November 2005.

International research collaboration

I have established and managed a pioneering international collaboration between Sweden and the UAE, guided by the Triple Helix model, which synergizes academia, industry, and government to foster innovation. This collaboration has resulted in three significant research projects in cooperation with esteemed Swedish entities such as Linköping University, the aviation service provider LFV, and SAAB, alongside several prominent UAE organizations including DANS, DAEP, DCA Sharjah, GCAA, RTA Dubai, Exponent, ARAMEX, and Dubai Municipality. These projects delve into sophisticated analyses and simulations of drone movements within urban landscapes, the regulation of civil aviation considering meteorological impacts, and the optimization of air traffic controller operations with respect to workload and engagement with operational systems.

Additionally, I contributed to disseminating the fruits of these collaborations through a TV interview on Sharjah TV's "Amaasy Program," where I discussed the impactful outcomes of our Sweden-UAE partnership under the Triple Helix framework in aviation innovation management.

My role also extended to organizing and leading several scientific research workshops that fostered international collaboration, notably:

1. Sustainability in Operations and Maintenance Management: Advancement in Reliability and Quality Engineering," with Prof. Min Xie from City University of Hong Kong as the invited speaker on February 3, 2019.
2. Two workshops focused on "Managing Unmanned Aviation Activities," which saw the participation of both Swedish and Emirate partners, including the Swedish Ambassador to the UAE and the Chancellor, on April 23-25, 2019, and February 11-13, 2020, respectively.
3. Exploring Potential Collaborations between Rennes School of Business and the University of Sharjah," on February 23-24, 2020.

Furthermore, I have been instrumental in formalizing several Memorandums of Understanding (MOUs) between the University of Sharjah and key international and national organizations and universities, including Linköping University and Luftfartsverket (LVF) in Sweden, Rennes School of Business in France, and several pivotal UAE entities such as Dubai Air Navigation Services (DANS), the Department of Civil Aviation (DCA) Sharjah, and the Dubai Taxi Corporation (DTC). These MOUs have paved the way for extensive collaborative ventures and research opportunities, underscoring our commitment to advancing global innovation and academic excellence.

Funded Projects at University of Sharjah, UAE.

1. Design recommendations for a sustainable and resilient library using quality function deployment (QFD) and analytical Hierarchy process (AHP)- University of Sharjah Library Case. **Principal Investigator (PI): Imad Alyouf.** A competitive research project with a total **budget of 62k**, starting from 1st September 2022 for 24 months.
2. Assessment of public transportation driver's psychophysiological state. **Principal Investigator (PI): Imad Alyouf.** A collaborative research project with a total **budget of 300k** (150k internally from University of Sharjah and 150k external funding from Dubai Taxi Corporation, RTA.
3. The Impact of Condition Based Maintenance (CBM) and Intelligent Machine Monitoring on Engineering Asset Sustainability, A Case Study on Dubai Public Transport Agency. **PI: Dr Imad Alyouf**, Internal Researchers Dr Mohammad Shamsuzzaman, Dr Hamdi Bashir, External Collaborators: Dr Ahmad Alzghoul, Sweden, Dr Majid Salameh Alsmadi, RTA, Eng. Iyad Alawaysseh, RTA. Budget 196000 AED, for 24 months starting from November 1st, 2016.
4. ISO 55000 (PAS 55) Standard – effects on engineering assets performance and implementation challenges: a benchmarking study based on RTA experience in- and University of Sharjah pilot student for- adopting the standards. **PI: Dr Imad Alyouf**, Researcher Dr Mohammad Shamsuzzaman, budget 133000 AED, for 24 months starting from November 1st, 2015.
5. Comparison study on effectiveness of EWMA control charts for monitoring process mean. PI: Dr Mohammad Shamsuzzaman, **Researcher Dr Imad Alyouf**, budget 100000 AED, September 2015-August 2017.

6. An Empirical Study on Improving Organizational Innovation in the United Arab Emirates **PI: Dr. Hamdi Bashir, Prof. Gardoni Mickael, Dr. Imad Alsyouf and Refaat Hassan Abdel Razek**
7. Sustainable supply chain operations management: integrated supplier selection, procurement, production, maintenance and distribution models. PI: Dr Ali Cheaitou, **Dr Imad Alsyouf**, Eng. Sadeque Hamdan, and Dr Rim Larbi (external).
8. A Decision Support System (DSS) for Integrated Sustainable Airport Ground Operations Management. PI: Dr Ali Cheaitou, **Dr Imad Alsyouf**, Eng. Sadeque Hamdan, and Dr Rim Larbi (external).

Funded Projects at University of Linnaeus, Sweden.

1. Andreas Horste, and Walter Abdiu from (Storebro Maskinreovering AB), Fredrik Lindahl from (Svensk Vindkraftförening), Idriss El-Thalji and Imad Alsyouf from (Växjö University), and Lars Hedström from (Finans & Kompetens i Sverige AB). Failures of gearboxes of wind turbines with a focus on onshore farms. The project was financed by WINDFORSK III program (ELFORSK) and the following companies: Skellefteå Kraft, Skellefteå Energi Underhåll, SPM Instrument, Regionförbundet Kalmar, E.ON Vind Sverige AB, and Vattenfall Vindkraft AB. The project period was seven months from September 2009 to March 2010.
2. Worked as a researcher in the project "a practical model to select and improve the most cost-effective maintenance technique", the project was partly financed by the Swedish maintenance society (UTEK) and the centre of industrial competitiveness (CIC) at Vaxjo University, 2002-2003.
3. Worked as a researcher in the project "economic importance of maintenance planning when using vibration-based maintenance policy". The project was financed by the Swedish government and the following companies: Volvo tracks/Koping, ABB Alstom Power AB, SKF/Condition Monitoring and StoraEnso Hyltebruk AB. The project started in Dec. 1999 and finished in June 2001

Teaching philosophy and Courses Taught

I believe that engineering education should be a seamless fusion of research, education, and practical application. I implement an educational approach where the educator goes beyond the traditional role of knowledge transmitter to become a facilitator, enabling students to forge meaningful connections between theoretical basics and practical implementations. This transition is critical in encouraging students to achieve excellent learning outcomes, characterized by depth, innovation, and critical thinking.

Central to my pedagogical strategy is the promotion of student-focused learning. I employ methods such as Team-Based Learning (TBL) and project-based assignments to cultivate an environment where students are actively engaged in their educational journey. These approaches not only facilitate self-directed learning but also encourage students to apply theoretical concepts to real-world challenges, thereby enhancing their problem-solving skills and creative capacities. This not only enriches classroom discussions but also fosters a culture of continuous learning and interest. This practice has proven effective in developing practical solutions and innovative projects. The feedback received through student course experience surveys has been overwhelmingly positive, with an overall average higher than the department, college, and university averages in most cases. This feedback is a testament to the value of fostering an interactive, research-informed, and application-oriented learning atmosphere that prepares students for the complexities of the engineering field and beyond.

A list of the courses that I have been teaching up to and including Spring 2023/2024 semester is presented below. Noting that I used to get excellent students' evaluation:

University of Sharjah: January 2009-onwards

Postgraduate

Engineering Asset Management - Taught 2 Times

Undergraduate

Industrial Automation and its lab – Taught 30 times

Coordinator Co-op in industry – Taught 13 times

Manufacturing Processes – Taught 6 times

Stochastic System Simulation and its lab – Taught 6 times

Product Design and Innovation Management Taught 5 times

Design for the Environment and Safety – Taught one time

Maintenance Planning and Control – Taught twice

German Jordanian University: (summer 2009 and summer 2010)

Managing Maintenance Systems – Taught one time

Lean Production Systems - Taught one time

Facilities planning - Taught one time

Jordan University of Science and Technology (JUST): (summer 2008)

Facilities planning - Taught one time

Lean Production Systems - Taught one time

Vaxjo University and Linnaeus University (Sweden): 2000-2010

Facilities planning - Taught 10 times

Life Cycle Cost Analysis (Cost Analysis) - Taught 10 times

Reliability Engineering - Taught 6 times

Logistics management - Taught 6 times

Principle of lean production – Taught 4 times

Operations Research, Procurement and Distribution - Taught 4 times

Operations Management - Taught 2 times

Facilities planning & production management - Taught 3 times

University of Jordan: 1995-1997

Manufacturing processes I and its lab - Taught 3 times

Cost accounting - Taught 2 times

PhD Supervision at University of Sharjah (Graduated)

Successfully supervised 3 Ph.D. students to completion, emphasizing my mentorship in guiding the next generation of engineers and researchers:

- i. Iyad Nouri Alawaysheh, Ph.D. dissertation titled “*Selecting Maintenance Strategy Based on Environmental Sustainability Criteria; a Framework and a Case Study from Public Transport Sector*”. **Supervisor Prof Imad Alsyouf. (Defended in April 2020).**
- ii. Tariq Al Hawi, Ph.D. dissertation titled “*Development of a Comprehensive Innovation Management Model for Government Services*”. **Main supervision Prof Imad Alsyouf and co-supervisor Prof Mickael Gardoni. (Defended November 2020).**
- iii. Ola AlZawati, Ph.D. dissertation titled “*The UAE’s Government Excellence Model: An Empirical Study on Model Attributes and Implementation Success Factors*”. **Main supervision Prof Imad Alsyouf and co-supervisor Dr Hamdi Bashir. (Defended June 2020).**

PhD Supervision at University of Sharjah (defended proposal)

- i. Khalifa Mohamed Abdulla Binhadda Alsuwaidi, PhD student initial proposal titled “*Building and Evaluating a Productivity Measurement Framework for Public Service Organizations: Evidence from Engineering Services in UAE*”, main supervisor Prof Imad Alsyouf and co-supervisor Dr Zain Tahboub, (defended his proposal in May 2021).

PhD Supervision at University of Sharjah (Proposal in process)

- i. Abrar Al Hammadi, PhD student initial proposal titled” Sustainable Management of Marine Resources: Ensuring Healthy Fish Populations and Supporting Livelihoods” main supervisor Prof Imad Alsyouf and co-supervisor Dr Concetta, supervisory committee (Prof Hamdi, Dr Salah, Dr Khaled)
- ii. Samya Aldhuhoori, PhD student initial proposal titled” Enhancing Sustainability Performance in Municipality: An Application of Best Ranking sustainable system” main supervisor Prof Imad Alsyouf and co-supervisor Dr Malek, supervisory committee (Dr Hammad, Dr Zahra, Dr Khaled)
- iii. Shaikha Sultan Mohamed Binkhatim, PhD student initial proposal titled ”Acceptance of Artificial Intelligence in Air Traffic Control: Navigating Trust and Human Factors in a UAE Case Study” main supervisor Prof Imad Alsyouf and co-supervisor Dr Ali and Dr Manar, supervisory committee (Prof Qasim, Prof Hamdi)

PhD Supervision at University of Linnaeus

- i. **Alireza Ahmadi:** Acted as a co-supervisor for him at Luleå University during- Jan. 2007- Sep. 2007. His main supervisor was Professor Uday Kumar at Luleå University of Technology, division of Operation and Maintenance Engineering, Sweden.
- ii. **Idriss El-Thalji:** acted as a co-supervisor for him in the area of operation and maintenance of wind power systems, at school of engineering, Linnaeus University, Sweden, 2008- 2010. His thesis entitled *Systems dependability engineering for wind power applications*.
- iii. **Renato Ciganovic:** acted as a co-supervisor for him in the area of operation and maintenance of wind power systems, at school of engineering, Linnaeus University, Sweden 2009- 2011. His thesis entitled *Supportability Engineering in Wind Power Systems – Who Cares?*

Master Supervision at the University of Sharjah

Master Thesis (Defended)

- i. Shaima Nasir Mohamed Alameeri. MSc Thesis titled” *Developing a machine learning-based assessment model to predict drivers’ psychophysiological state*” **Main supervision Prof. Imad Alsyouf** and co-supervisor Dr Ahmed Alzoghoul Alzghoul (External). Defended April 2023.
- ii. Lama Maher Alhaj Husein, MSc Thesis titled “*Towards High-Performance Buildings using IoT and AI technologies in Office Buildings of Hot Climate: Lama. The Case of the University of Sharjah.*”, **Main supervision Prof. Imad Alsyouf** and co-supervisor Dr Emad Mushtaha. Defended December 2022.
- iii. Shamma MSc Thesis titled “*The impact of façade design on visual comfort in residential buildings of hot climate*” **Main supervision Prof. Imad Alsyouf** and co-supervisor Dr Emad Mushtaha. **Defended in December 2022.**

- iv. Noora Ali Khalfan Chookah, MSc Thesis titled “Incorporating participatory planning in revitalizing an old neighbour using QFD method: the case of Sharjah, Alnassereyah.” Main supervision Prof. Imad Alsyouf and co-supervisor Dr Emad Mushtaha. The thesis was defended in Fall 2021.
- v. Anwar Hamdan, MSc Thesis titled “Managing Unmanned Air Traffic in Cities with High-rise Buildings: An Operational Concept, Drone Routing and Drone Traffic Balancing in the Context of UAE”. Main supervision Dr Ali Cheaitou and co-supervisor **Prof. Imad Alsyouf**, and Dr. Jonas Lundberg, Linkoping University, Sweden. The thesis was defended in Fall 2019.
- vi. Gasim Mohamed Mustafa Abd Elrahman, MSc Thesis titled “*An integrated model for economic design of times-between-events control chart under maintenance policies*”, **Main supervision Dr. M. Shamsuzzaman and co-supervisor Dr Imad Alsyouf. The thesis was defended in Spring 2018.**

Master Thesis (In process)

- i. Amr Ahmed Abdelaty Elsayed. MSc Thesis titled “Towards improving fire safety in high rise buildings through IoT, BIM and Architectural interventions: Emirate of Sharjah as a case study.” Main **supervision Prof. Imad Alsyouf** and co-supervisor Dr Emad Mushtaha. **The proposal was defended in Spring 2023.**
- ii. Fakhariya Hamid Ibrahim; MSc Thesis titled “Evaluating Grid-Scale Energy Storage Systems Using Rough Weighted Aggregated Sum Product Assessment (WASPAS): A Life-Cycle Approach” , Main **supervision Prof. Imad Alsyouf** and co-supervisor Prof. Abdul Al Hai Al Alami. **The proposal was defended in Fall 2022.**
- vii.

Master Project

- i. Fatima Humaid Hussain, MSc Project titled “Identification of Causes of Road Asset Accidents using FMEA Methodology: a study in Sharjah.” **Defended Spring 2016.**
- ii. Maitha Mohamed Ahmad Alsuwaidi, MSc Project titled “Development of asset management performance criteria for assessing the impact of ISO 55000 on organizational performance” **Defended Spring 2017.**
- iii. Fatima Ibrahim Alhammadi, MSc Project titled “Improving Aircraft Structure Defect Detection Process using Lean Six Sigma”. **The proposal has been approved in Spring 2017.**
- iv. Samya Ali Mohamed Rhma Aldhuhoori, MSc project titled “Developing a new sustainability rating system for higher education”. Main supervision Dr Emad Mushtaha and co-supervisor **Dr Imad Alsyouf, the final project is planned to be defended in Fall 2018.**
- v. Hend Mohammed Issa Karm Al Baloushi. A Study on Improving the Performance of PV System of Shams Dubai Projects by Mitigating Dust. **Dr Imad Alsyouf Jointly with Dr Hamad, the final project is planned to be defended in Fall 2019**
- vi. Fatima Mohammed Hussain Jafar. Improving the reliability of Power Transmission system. Dr Imad Alsyouf Jointly with Dr Ali Cheaitou **the final project is planned to be defended in Fall 2019.**

- vii. Fatima Alraeesi, Determining the level of e-waste awareness at the university of Sharjah, May 2023.
- viii. Meera Abdalla Almaazmi. Analysis of the factors leading to taxi drivers' road accidents in the United Arab Emirates. December 2022.

Master Supervision at other Universities

Adam Zaidan: acted as a co-supervisor for his thesis at Jordan University of Science and Technology (JUST) 2011-1012. His M.Sc. thesis entitled Outsourcing Maintenance activities using multiple criteria decision making.

At Linnaeus University in Sweden, I have supervised at least 15 Swedish master student projects.

Bachelor supervision

At university of Sharjah, I have been supervising many senior design projects and co-op projects. And At Linnaeus University in Sweden I have supervised 5 bachelor graduating projects

Examination of master theses and projects

- Rana Osama Musa. “Integrating Sustainability into Construction Projects and its Impact on Projects Success in UAE”. Spring 2019.
- Sumayya Saeed Hasan Almazrouei, “An integrated model for forecasting power demand and control energy flow in large-scale grid connected PV system”, Master Thesis, UOS, Fall 2017/2018.
- Sara Ahmed Mohamed Ali Abduli. “Application of AHP in assessing heritage and modern buildings based on sustainability” -- Master project, Department of Industrial Engineering and Engineering Management, University of Sharjah, UAE, Fall 2016-17.
- Hamed Allaham H., “Energy management of UAE data centre using optimized photovoltaic system”, MSc. Thesis Proposal, UOS, November 2014.
- Hamdan, S., “Green supplier selection and order allocation”, MSc. Thesis Proposal, UoS, November 2014.
- Hamdan, B., “Factor-analysis based approach for decomposing traveling salesman problem”, MSc. Thesis Proposal, UoS, November 2014.
- AbdelJawad, A., “A comprehensive model for organizational and related influencing factors”, MSc.Thesis Proposal, UoS, November 2014.
- Touqan, M., “Current project management practices in the construction industry in the United Arab Emirates”, MSc. Thesis Proposal, UoS, November, 2014

Professional Development

- **University of Sharjah Policies and Regulations for Faculty Promotion.** Four hours training program on November 16, 2017. Arranged by the center for continuing education and professional development, University of Sharjah.
- **Workshop on Sustainability in Operations and Maintenance Management: Challenges and Opportunities.** Two days: 26-27th February 2017. Arranged by Sustainable Engineering Asset Management Research group at RISE at University of Sharjah. keynote speaking Prof. Uday Kumar, LTU, Sweden.
- **Workshop on Fluke Mechanical & Thermal Imaging Tools.** One day: the 30th of January 2017, Dubai, arranged by Fluke.
- **Awareness of university bylaw and policies related to leading position.** Three days for 6 hours during the period 3rd-5th of November 2015. Arranged by the center for continuing education and professional development, University of Sharjah.
- **Awareness of university bylaw and policies related to faculties.** Three days for 6 hours during the period 15th-17th of June 2015. Arranged by the center for continuing education and professional development, University of Sharjah.
- **Team-Based learning (TBL) in higher education.** Two days full-time study, 24-25 March 2011. University of Sharjah in cooperation with Prof. Larry Michaelsen, Central Missouri State University, USA.
- **Intellectual Property and Technology commercialization.** One day full-time study, 14 December 2010. University of Sharjah, organized by Emirates Foundation.

Professional Certifications

- **Academic leadership Four days full-time study** Course Certificate, University Pedagogic Centre (UPC), September 2007- December 2007, Vaxjo University, Sweden.
- **Research Supervisor Training Three weeks full-time study,** Course Certificate, Southeast Sweden Universities - Blekinge - Kalmar - Vaxjo, March 2006 - December 2006, Sweden.

Administrative Duties, Committees and Task force

University of Sharjah

- **Member,** Department Council, 2010-onwards.
- **Coordinator,** the department industrial link and community services, since the 2014/2015 academic year.
- **Member,** department teaching, Learning, and Accreditation, for the 2014/2015 academic year.
- **Coordinator** for the committee responsible for developing the department strategic plan, December 2013-April 2014.
- **Coordinator** for a college committee that is responsible for developing the Community Service Part of the strategic plan, April-May 2014.
- **Member** of the college Research and Graduate Studies Committee, 2013/2014.

- **Member** of the university committee "Library and Learning Resources Committee", 2013/2014.
- **Member** of a committee to manage and coordinate the ME program, September 2012-September 2013.
- **Member** of the search and recruitment committee for the ME Faculty Hiring, February –June 2013.
- **Member** of the search and recruitment committee for the ME Staff Hiring, February– June 2013.
- **Member** of the committee for the ME Lab, February–June 2013.
- **Member** of a college promotion committee, February-March 2014.
- **Member** of a university committee to study and evaluate the possibility of establishing a publishing house at the university, February-April 2014.
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- **Member** of the college of engineering council, September 2011-September 2013.
- **Member**, committee to prepare a plan for the newly established Bachelor's Program in Mechanical Engineering, October 2010-December 2011.
- Chair of the university joint committee to oversee the maintenance and air conditioning for all the university's buildings and facilities, October 2011-June 2012.
- **Chair** of the university joint committee to oversee the general appearance and environmental health at the university, October 2011-June 2012.
- **Member** of a committee to supervise the new women's sport complex, January 2012-June 2012.
- **Coordinator** for the promotion Department committee for a colleague (Dr. Shamsuzzaman), February 2012.
- **Coordinator** for the search and recruitment committee for an IEEM lab engineer position, April-June 2012.
- **Member** of a university committee entitled "crisis Management committee, March –June 2016.
- **Coordinator** of the college Faculty Affairs Committee, September 2015- August 2016.
- **Coordinator** of the department Industrial Link, Alumni Relationship and Community Service committee, September 2015- August 2017.
- **Coordinator** of the department Course Planning and Scheduling committee, September 2015- August 2016.
- **Coordinator** of the department recruitment committee to hire academic officer, February 2016- August 2016.
- **Member**, MSc in Engineering Management Committee, February 2015- August 2016.
- **Member** of the college of engineering council, February 2015- August 2016.
- **Member** of a university committee to develop a study to establishing a Risk Management Function at the UoS. Fall 2016.
- **Member of** the promotion Department committee for a colleague (Dr. Ali Cheaitou), May 2017.
- **Chairman of** the University Campus Sustainability Committee, 2016/2017.

Vaxjo University and Linnaeus University (Sweden): 2000-2010

- Developing an educational engineering program and new courses.
- Enhancing the relation between the university and the Swedish regional Industry.
- Coordinating high seminars at the school where international and national researchers are invited to present some of their work to the Swedish industry and PhD students.

Training courses offered

- 1) Development and continuous improvement methodology by Kaizen: منهجية التطوير والتحسين بأسلوب كايزن, **Dubai, 29-30, March 2014**. Offered for a group of managers of a Libyan Oil and Gas company senior managers.
- 2) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي). Offered for Sheikh Zayed Housing Program, **Dubai 21st September 2014- 14th May 2015** organized by the center for continuing education and professional development at the University of Sharjah.
- 3) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Dubai, 16-17 September 2015**. Offered for Dubai Land, organized by the center for continuing education and professional development at the University of Sharjah.
- 4) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Sharjah**, Offered for University of Sharjah Employees, Employees 3rd batch (**5th April, 2015 till 17th of March 2016**), organized by the center for continuing education and professional development at the University of Sharjah.
- 5) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, 21st December 2015- 18th May 2016**, Offered for Ministry of Public Work Employees, organized by the center for continuing education and professional development at the University of Sharjah.
- 6) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Sharjah**. Offered for University of Sharjah Employees fourth batch (**21st April, 2015 till 24th of November 2015**), organized by the center for continuing education and professional development at the University of Sharjah.
- 7) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Sharjah**,. Offered for University of Sharjah Employees (Kalbaa Branch) fifth batch **8th of December 2015 till 28th of April 2016**, organized by the center for continuing education and professional development at the University of Sharjah.
- 8) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, 17th of April 2016- 30th of May 2016**, Offered for General participants, organized by the center for continuing education and professional development at the University of Sharjah.
- 9) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Sharjah, the 11th of April till the 1st of June 2016..** Offered for Sharjah Government Employees, organized by the center for continuing education and professional development at the University of Sharjah.
- 10) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah**, Offered for **Dubai Police**, organized by the center for continuing education and professional development at the University of Sharjah. The first batch (**9th May, 2016 till the 17th of November 2016**).
- 11) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي). Offered for University of Sharjah Employees **sixth batch (12th April, 2016 till 17th of November 2017)**, organized by the center for continuing education and professional development at the University of Sharjah.
- 12) TQM and organizational Excellency (برنامج إدارة الجودة الشاملة والتميز المؤسسي), **Sharjah**. Offered for University of Sharjah Employees **seventh batch (6th December, 2016 till 13th of April 2017)** organized by the center for continuing education and professional development at the University of Sharjah.
- 13) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, March 15- May 03, 2017**, Offered for **Dubai Police**, organized by the center for continuing education and professional development at the University of Sharjah. The second batch.

- 14) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, March 1- April 30, 2018**, offered for **Dubai Police**, organized by the center for continuing education and professional development at the University of Sharjah. The third batch.
- 15) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, March 25- April 26, 2018**, Offered for **General participants**, organized by the center for continuing education and professional development at the University of Sharjah.
- 16) Diploma in "TQM and organizational Excellency (إدارة الجودة الشاملة والتميز المؤسسي)", **Sharjah, January 20- February 14, 2019**, offered for **participants from the Human Resources Department in Sharjah**, organized by the center for continuing education and professional development at the University of Sharjah.
- 17) Diploma in "TQM and organizational Excellency (الدبلوم المهني في ادارة الجودة والتميز المؤسسي للادارة (العامه الاقامة والجنسية - دبي)", **Sharjah, March 17- May 16, 2019**, Offered for **Dubai Police**, organized by the center for continuing education and professional development at the University of Sharjah. The fourth batch.
- 18) Diploma in " **دبلوم البرلمان العربي للطفل لمهارات العمل البرلماني**" **Sharjah, February 22- June 24, 2023**. Organized by the center for continuing education and professional development at the University of Sharjah. I Gave the sustainability module on 6 May 2023 and 6 May 2023. First Batch.
- 19) Diploma in " **دبلوم البرلمان العربي للطفل لمهارات العمل البرلماني**" **Sharjah, February 22- June 24, 2023**. Organized by the center for continuing education and professional development at the University of Sharjah. I Gave the sustainability module on 19-20 May 2023. Second Batch.
- 20) Diploma in " **دبلوم البرلمان العربي للطفل لمهارات العمل البرلماني**" **Sharjah, February 22- June 24, 2023**. Organized by the center for continuing education and professional development at the University of Sharjah. I Gave the sustainability module on 23-24 June 2023. Third Batch.

Community services

Developing and enhancing the cooperation between Beeah and the University of Sharjah and planning for signing a MOU at the university level, 2012.

Acting as a judge at the National Think Science Competition 2103 and 2014.

Acting as a reviewer for a master program in "Maintenance Engineering and Quality Management" that was developed by University of Jordan as part of a TEMPUS project, 9-24 September 2013.

Visiting URUK engineering and contracting company with two colleagues from SREE program as per request from Prof. Mufid Samerayee "Sharjah Research Academy". Consequently, preparing a feasibility study proposal for "Intake Air Cooling of Gas Turbine.

Participating in the activities of the UAE Innovation Week which was held from 22-28 November 2015, by giving a seminar entitled "Implementing Product Design Development Methodology For Assessing and Improving Performance of Electrical Generator"

Visit and Seminar about SEAM research Group and Collaboration Opportunities with Dubai Municipality on the 14th of January 2016.

Visit and Seminar about SEAM research Group and Collaboration Opportunities with Road and Transport Authority (RTA), Dubai on the 27th of January 2016.

Giving a seminar entitled “SDP or Co-op” per request of IIE chapter on Sunday the 24th of April, 2016.

Participating in the activities of the UAE Innovation Week, which was held from 22-28, November 2015, by giving a seminar entitled “Implementing Product Design Development Methodology for Assessing and Improving Performance of Electrical Generator”

Developing and enhancing the cooperation between DAEP and the University of Sharjah and planning for signing a MOU at the university level, 2017. See the event that was conducted on Thursday the 12th of January 2017 between Dr Zain and research coordinators at RISE.

Organizing and participating in a workshop titled “Sustainability in Operations and Maintenance Management: challenges and opportunities”. During 26-17th of February 2017, where the keynote speaker was Prof. Uday Kumar from LTU, Sweden, in collaboration with Emirate industries.

Developing and signing a letter of Intent (LoI) between the University of Sharjah and Lulea University of Technology (LTU) in Sweden in April 2017. The aim of the LoI is promote academic cooperation, mutual understanding, and friendly relationship which will lead to signing an MOU.

Developing and arranging for signing the Memorandum of Understanding (MOU) for collaboration between Sharjah Municipality and University of Sharjah on the 4th of June 2017.

Developing and arranging for signing the Memorandum of Understanding (MOU) for collaboration between Dubai Taxi Corporation and University of Sharjah on 6 November 2018.

Developing and arranging for signing the Memorandum of Understanding (MOU) for collaboration between Dubai Air Navigation Services (DANS) and University of Sharjah on 1 May 2019.

Journal reviewer

I have been acting as a reviewer for the following international journals shown below:

| Journal Name | /Since |
|---|----------------|
| • Total Quality Management and Business Excellence | /2018- onwards |
| • Reliability Engineering and System Safety | /2018- onwards |
| • International Jour. of Manufacturing Tech. and Management | /2018- onwards |

- Journal of Quality in Maintenance Engineering /2016- onwards
- European Journal of Industrial Engineering /2016- onwards
- International journal of Quality and Reliability Management /2013- onwards
- International Journal of Computer Integrated Manufacturing /2012- onwards
- Quality and Reliability Engineering International /2011- onwards
- Journal of Engineering Manufacture /2010- onwards
- European Journal of Operational Research /2008- onwards
- Operations and Supply Chain Man.: An International Journal /2007- onwards
- The Int. Jour. of Services Tech. and Management (IJSTM) /2006- onwards
- The international journal of production economics (IJOPE) /2003- onwards

Member of an editorial board

Since 2007-onward: Operations and Supply Chain Management: An International Journal.
<http://www.oscm-forum.org>

Member of international conference technical committee

- The 4th International Conference on System Reliability and Safety (ICSRS 2019), held at NH Roma Villa Carpegna in Rome, Italy during November 20-22, 2019. The conference official website is <http://www.icsrs.org>. **I am still having this role yearly.**
- The second International Conference on Industrial, Systems & Manufacturing Engineering (ISME'19) Innovation and New Technologies November 11 - 13, 2019, Amman – Jordan.
<http://www.jeaconf.org/isme>
- The 8th International Engineering Education Forum (IFEE) 2017 April 18 - 20, 2017, University of Sharjah – Sharjah, United Arab Emirates
- The 7th International Conference on Operations and Supply Chain Management (OSCM), 18 – 21 December 2016, Phuket, Thailand. **(Reviewer).**
- The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2016), Bali Indonesia, 4-7 December 2016. **(Reviewer).**
- The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2016), Guangzhou, P.R. China, 7-8 November 2015. **(Reviewer).**
- The 2015 International Conference on Industrial Engineering and Operations Management, Dubai, UAE, March 3 – 5, 2015. **(Reviewer and Session Chair).**
- The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2014), Malaysia, 9-12 December 2014. **(Reviewer and Session Chair).**
- The IEEE International Conference on Industrial Engineering and Engineering Management. Bangkok, Thailand, 10-13 Dec 2013. **(Reviewer and session Chair).**
- The IEEE International Conference on Industrial Engineering and Engineering Management. Hong Kong, China 10-13 December 2012. **(Reviewer and session Chair).**
- The European Wind Energy Conference and Exhibition (EWEC) 2011 **(Program Committee member)**
- The European Wind Energy Conference and Exhibition (EWEC) 2010 **(Program Committee member)**
- The third International Conference on Operations and Supply Chain Management (OSCM), Malaysia, 2009- **(Reviewer).**

- The second International Conference on Operations and Supply Chain Management (OSCM), Bangkok THAILAND, 2007- **(Reviewer and session chair)**.
- The first International Conference on Operations and Supply Chain Management (OSCM), Bali, December 2005 – **(Reviewer and session chair)**.

Professional Memberships

1989 - Present, Jordan Engineers Association, Member.

2008 - 2012, the European Wind Energy Association (EWEA), Member.

2009 - Present, the Jordanian Renewable Energy Society, Member.

2015 -present, the Institute of Asset Management (IAM) UK. Associate member.

2018- Present, Association for the Advancement of Sustainability in Higher Education (AASHE)

Awards and Honors

Center of Industrial Competitiveness, Vaxjo University, Sweden. (2002). Scholarship during the period 2002-2004.

Award of the best Outstanding College/ Green Campus domain/ 6th Cycle 2017/2018, awarded by Sharjah Environmental and Protected Areas Authority

Winning the second place of the Poster Competition for the paper titled "Challenges of implementing ISO 55000: a case study from an educational institute." Published at the proceedings of The International Conference on Industrial Engineering and Operations Management (IEOM:2018) Bandung, Indonesia, March 6-8, 2018.