

Gomaa Attia Hussien



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Research Interests

Quality Management System (QMS); Total Quality Management (TQM); Lean Six Sigma (LSS); Supply Chain Management (SCM); Project Management; Production Management; HSE Management; Maintenance Management; Risk Based Inspection (RBI); Reliability Centered Maintenance (RCM); Equipment Failure Analysis; Strategic Planning; and Project Feasibility Study, Industry 4.0/5.0/6.0.

Education Background

Highest Degree & Major

Ph.D., Mechanical Design & Production Department, “Industrial Engineering”, Cairo University

Membership of professional bodies

- Member of the Egyptian Society for Mechanical Engineering.
- Member of the Egyptian Society for Operations Research Applications.
- Member of the Egyptian Foundrymen's Society.
- Member of the Association of Engineers

Reviewer for many international journals

- International Journal of Lean Six Sigma (IJLSS)
- Global Journal of Industrial Management (GJIM)
- American Journal of Engineering and Technology Management
- Production & Manufacturing Research (PMR)
- Engineering, Technology & Applied Science Research (ETASR)
- Operations Research Forum
- Discover Applied Sciences
- Risk Management and Healthcare Policy
- American Journal of Engineering and Technology Management (AJETM)
- Academia Engineering
- International Journal of Cast Metals Research (IJCMR)
- Ain Shams Engineering Journal (ASEJ)
- Cairo Engineering Journal (JEAS)
- Mansoura Engineering Journal (MEJ)
- Shoubra Engineering Journal (ERJ); ... etc.

Examiner for Master and Ph.D Thesis in many engineering faculties

- Cairo Engineering Faculty
- Ain Shams Engineering Faculty
- Shoubra Engineering Faculty
- Benha Engineering Faculty
- Menoufia Engineering Faculty
- Zagazig Engineering Faculty
- Fayoum Engineering Faculty
- Helwan Engineering Faculty; ... etc.

Representative Publications

Supply Chain Management (SCM)

- Gomaa, Attia H., (2026), "Achieving Operational Excellence in Manufacturing Supply Chains Using Lean Six Sigma: a Case Study Approach", International Journal of Lean Six Sigma (IJLSS), (In Progress).
- Gomaa, Attia H., (2026), "Supply Chain Risk Management for Sustainable and Resilient Operations: A Comprehensive Review and Strategic Framework in the Era of Industry 4.0-5.0". Transnational Supply Chain Research, 2(1), pp.1-23.
- Gomaa, Attia H., (2025), "Manufacturing Supply Chain Excellence Through Lean Six Sigma: A Case Study Approach", Global Journal of Industrial Management, 1(1), 2032, pp. 1-22.
- Gomaa, Attia H., (2025), "Optimizing Manufacturing Supply Chains Using a Strategic Lean Six Sigma Framework: A Case Study", International Journal of Inventive Engineering and Sciences (IJIES), 12(3), pp. 20-33.
- Gomaa, Attia H., (2025), "Enhancing Business Operations through Data-Driven Decision Making: A Comprehensive Review, Research Gaps, and Strategic Framework", Journal of Decision Science and Optimization, 1(1), pp. 84-96.
- Gomaa, Attia H., (2025), "Enhancing Supply Chain Management Using Machine Learning Techniques: A Comprehensive Review, Gap Analysis, and Strategic Framework". Transnational Supply Chain Research, 1(1), pp.1-21.
- Gomaa, Attia H., (2025), SCM 4.0 Excellence: A Strategic Framework for Smart and Competitive Supply Chains. International Journal of Management and Humanities (IJMH), 11(8), pp. 24-44.
- Gomaa, Attia H., (2025), "Enhancing Efficiency and Effectiveness in MRO Inventory Management Using Lean Six Sigma", The IUP Journal of Operations Management, 24(1), pp. 19-55.
- Gomaa, Attia H., (2024), "Boosting Supply Chain Effectiveness with Lean Six Sigma", American Journal of Management Science and Engineering, 9(6), pp.156-171.
- Gomaa, Attia H., (2023), "Improving Supply Chain Management Using Lean Six Sigma: A Case Study", International Journal of Applied and Physical Sciences, IJAPS, Vol. 9, No. 1, pp. 22-33.
- Gomaa, Attia H., (2022), "Lean Six Sigma for Improving Supply Chain Management -A Literature Review", Global Journal of Research in Engineering and Technology, Vol. 1, No. 1, pp. 18-31.
- Hassan, M. F., Gomaa, Attia H., (2000), "A Computer Based System for Production Planning & MRP in Misr Aluminum Co.", The 7th Cairo University International MDP Conference, Cairo.
- Gomaa, Attia H., Hussien, S. M. and Zahran, M.Z., (1999), "A Simulation Study for MRP system Under Uncertain Operating Environment", Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Vol. 46, No. 2.

- Hassan, M. F., Gomaa, Attia H., (1997), “A Computer Based System for Production Planning and Control & Material Requirement Planning in Misr Aluminum Co.”, The 1st Cairo University Conference in R&D for Egyptian industry, Cairo.

Operations and Process Management

- Gomaa, Attia H., (2025), “Optimizing Machining Process Performance Using Lean Six Sigma: A Case Study”. *Transnational Supply Chain Research*, 1(1), pp. 54-83.
- Gomaa, Attia H., (2025), “Enhancing Business Operations through Data-Driven Decision Making: A Comprehensive Review, Research Gaps, and Strategic Framework”, *Journal of Decision Science and Optimization*, 1(1), pp. 84-96.
- Gomaa, Attia H., (2025), “Information and Communication Technology for Efficient Operations Management: A Comprehensive Review, Research Gaps, and Strategic Framework”, *Interdisciplinary Systems for Global Management*, 1(2), pp. 86-100.
- Gomaa, Attia H., (2025), “Enhancing Lean Performance through TPM–VSM Integration: A Case Study in Spare Parts Production”, *International Journal of Darshan Institute of Engineering Research and Emerging Technologies*, 14(1), pp. 1-14.
- Gomaa, Attia H., (2024), “Optimizing Machining Quality and Production Efficiency Through a Taguchi-Based Six Sigma Framework”, *International Journal of Darshan Institute of Engineering Research and Emerging Technologies*, 13(2), pp.34-46.
- Gomaa, Attia H., (2024), “Improving Productivity and Quality of a Machining Process by Using Lean Six Sigma Approach: A Case Study”, *Eng. Research Journal (ERJ)*, Vol. 53, No. 1, pp. 1-16.
- Gomaa, Attia H., (2022), “Improving Manufacturing Efficiency and Effectiveness Using Lean Six Sigma Approach”, *International Journal of Technology and Engineering Studies (IJTES)*, Vol. 8, No. 1, pp. 22-33.
- Gomaa, Attia H., (2022), “Enhancing manufacturing excellence through lean six sigma”, *Comprehensive Research and Reviews in Engineering and Technology, (CRRET)*, vol. 1, no. 1, pp. 29-44.
- Gomaa, Attia H., (2002), “A Simulation Study for Evaluating the Performance Measures and Dispatching Rules of Production Scheduling”, *Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University*, Vol. 49, No. 5.
- Hassan, M. F., Gomaa, Attia H., (1997), “A Computer Based System for Production Planning and Control & Material Requirement Planning in Misr Aluminum Co.”, The 1st Cairo University Conference in R&D for Egyptian industry, Cairo.

Maintenance Management & Asset Management

- Gomaa, Attia H., (2026), “Enhancing Shutdown Maintenance Performance Using Lean Six Sigma: A Case Study”, *International Journal of Lean Six Sigma (IJLSS)*, (In Progress).
- Gomaa, Attia H., (2025), “Achieving Maintenance Excellence in Manufacturing Through Integration of Lean Six Sigma and Proactive Approaches: A Case Study”, *International Journal of Inventive Engineering and Sciences (IJIES)*, 12(3), pp. 1-14.
- Gomaa, Attia H., (2025), “Enhancing Lean Performance through TPM–VSM Integration: A Case Study in Spare Parts Production”, *International Journal of Darshan Institute of Engineering Research and Emerging Technologies*, 14(1), pp. 1-14.
- Gomaa, Attia H., (2025), “Enhancing Failure Mode and Effects Analysis with Industry 4.0 (FMEA 4.0): A Comprehensive Review and Strategic Framework”, *International Journal of Darshan Institute of Engineering Research and Emerging Technologies*, 14(2), pp. 1-12.
- Gomaa, Attia H., (2025), “Advancing Total Productive Maintenance in Smart Manufacturing: From Methodology to Implementation”, *Intelligent and Sustainable Manufacturing*, 2(1), pp. 1-17.

- Gomaa, Attia H., (2025), "Asset Management Excellence: A Roadmap for Integrating Lean Six Sigma and ISO 55001 to Achieve Operational Excellence", *Intelligent and Sustainable Manufacturing*, 2(2), pp. 1-19; DOI: 10.70322/ism.2025.10020
- Gomaa, Attia H., (2025), "Optimizing Asset Integrity for Critical Manufacturing Systems Using Advanced Proactive Maintenance Strategies", *International Journal of Emerging Science and Engineering (IJESE)*, 13(4), pp. 21-33.
- Gomaa, Attia H., (2025), RCM 4.0: A Novel Digital Framework for Reliability-Centered Maintenance in Smart Industrial Systems. *International Journal of Emerging Science and Engineering (IJESE)*, 13(5), pp. 32-43.
- Gomaa, Attia H., (2025), Smart Maintenance in Industry 4.0: Optimizing Equipment Performance Through Digital Twins and Lean Six Sigma Integration. *IUP Journal of Mechanical Engineering*, 18(1), pp.7-31.
- Gomaa, Attia H., (2025), Maintenance 4.0: Optimizing Asset Integrity and Reliability in Modern Manufacturing. *International Journal of Inventive Engineering and Sciences (IJIES)*, 12(2), pp.18-26, pp. 18-26.
- Gomaa, Attia H., (2024), "Enhancing Proactive Maintenance of Critical Equipment by Integrating Digital Twins and Lean Six Sigma Approaches", *International Journal of Modern Studies in Mechanical Engineering (IJMSME)*", 10(1), pp.20-35.
- Gomaa, Attia H., (2024), "Improving Shutdown Maintenance Management Performance Using Lean Six Sigma Approach: A Case Study", *International Journal of Applied and Physical Sciences, IJAPS*, Vol. 10, No. 1, pp. 1-14.
- Gomaa, Attia H., (2024), "Digital Twins for Improving Proactive Maintenance Management", *Engineering Science*, Vol. 9, No. 3, pp. 60-70.
- Gomaa, Attia H., (2023), "Maintenance Process Improvement Framework Using Lean Six Sigma: A Case Study", *International Journal of Business and Administrative Studies, IJBAS*, vol. 9, no. 1, pp. 1-25.
- Gomaa, Attia H., (2022), "Enhancing Maintenance Management of Critical Equipment Using Digital Twin", *Global Journal of Research in Engineering and Technology*, Vol. 1, No. 1, pp. 46-54.
- Roubi A. Zaied, Kazem Abhary and Attia H. Gomaa, (2010), "Intelligent Integrated Maintenance of Manufacturing Systems", *Engineering the Future*, Chapter 15, pp. 297-316.
- Gomaa, Attia H., (2005), "The impact of total productive maintenance on manufacturing productivity" *The Maintenance Journal*, V. 18, No.2, pp. 30-37.
- Shalaby, M. A., Gomaa, Attia H., and Mohib, A.M., (2004), "A System Reliability Approach for Preventive Maintenance Simulation of A Power Station", *Journal of Engineering and Applied Science*, Vol. 51, No. 4, pp. 795-811.
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- Quality Management Systems (QMS), Total Quality Management (TQM) & Leadership
- Gomaa, Attia H., (2026), "Green Lean Six Sigma for Smart and Sustainable Manufacturing: A Comprehensive Review and Strategic Framework in the Industry 4.0–5.0 Era", *Interdisciplinary Systems for Global Management*, 2(1), pp. 25-39.
- Gomaa, Attia H., (2025), "Optimizing Machining Process Performance Using Lean Six Sigma: A Case Study". *Transnational Supply Chain Research*, 1(1), pp. 54-83.
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- Gomaa, Attia H., (2025), "Transforming Manufacturing from Industry 4.0 to Industry 6.0: A Comprehensive Review, Gap Analysis, and Strategic Framework", *Interdisciplinary Systems for Global Management (ISGM)*, 1(1), pp. 29-51.
- Gomaa, Attia H., (2025), "Leading with excellence: Critical leadership dimensions in Lean Six Sigma for business excellence", *Human Resources Management and Services*, 7(2), pp. 1-25.
- Gomaa, Attia H., (2025), "Strategic Lean Leadership in Lean Six Sigma Projects for Manufacturing Excellence", *International Business & Economics Studies*, 7(2):125-160.
- Gomaa, Attia H., (2025), LSS 4.0: A Conceptual Framework for Integrating Lean Six Sigma and Industry 4.0 for Smart Manufacturing Excellence. *Indian Journal of Management and Language (IJML)*, 5(1), pp. 8-29.
- Gomaa, Attia H., (2025), Lean 4.0: A Strategic Roadmap for Operational Excellence and Innovation in Smart Manufacturing. *International Journal of Emerging Science and Engineering (IJESE)*, 13(5), pp.1-20.
- Gomaa, Attia H., (2025), "Advancing Kaizen 4.0 for Smart Manufacturing Excellence: A Comprehensive Review and Conceptual Framework for Continuous Improvement", *Mechanical Theory and System*, 1(1), pp. 1-21.
- Gomaa, Attia H., (2024), "Advancing Manufacturing Excellence in the Industry 4.0 Era: A Comprehensive Review and Strategic Integrated Framework", *Supply Chain Research*, 2(2), pp.1-37.
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- Gomaa, Attia H., (2023), "Operational Excellence for Improving Manufacturing Performance Using Lean Six Sigma", *International Journal of Business and Administrative Studies, IJBAS*, vol. 9, no. 2, pp. 1-19.
- Gomaa, Attia H., (2023), "A Systematic Review of Lean Six Sigma in Manufacturing Domain", *Engineering Research Journal (Shoubra)*, Vol. 52, No. 4, pp. 139-148.

Project Management and Value Engineering

- Gomaa, Attia H., (2025), "Value Engineering in the Era of Industry 4.0: From Gap Analysis to Research Methodologies and Strategic Framework", *Intelligent and Sustainable*

Manufacturing, 2(1), pp. 1-18.

- Gomaa, Attia H., (2025), "Advancing project management excellence: A comprehensive framework integrating Value Engineering, Lean Six Sigma, and proven best practices", Value, Function, Cost 2025, 5(1), 3731, pp. 1-22.
- Gomaa, Attia H., (2025), "Achieving Project Management Excellence through Lean Six Sigma", Middle East Research Journal of Engineering and Technology, 5(2), pp. 18-32.

Product Development

- Gomaa, Attia H.,(2025), "Enhancing Product Development Excellence through Quality Management Tools: A Comprehensive Review and Integrated Conceptual Framework", Intelligent and Sustainable Manufacturing, 2(1), pp. 1-22.
- Gomaa, Attia H., (2025), "Value Engineering in the Era of Industry 4.0: From Gap Analysis to Research Methodologies and Strategic Framework", Intelligent and Sustainable Manufacturing, 2(1), pp. 1-18.
- Gomaa, Attia H., (2024), "Enhancing Product Development Using Lean Six Sigma Approach: From Continuous Improvement to Continuous Innovation", The IUP Journal of Operations Management, 23(4), pp. 5-26.

Artificial Intelligence, Industry 4.0/5.0/6.0

- Gomaa, Attia H., (2026), "Green Lean Six Sigma for Smart and Sustainable Manufacturing: A Comprehensive Review and Strategic Framework in the Industry 4.0–5.0 Era", Interdisciplinary Systems for Global Management, 2(1), pp. 25-39.
- Gomaa, Attia H., (2026), "Supply Chain Risk Management for Sustainable and Resilient Operations: A Comprehensive Review and Strategic Framework in the Era of Industry 4.0-5.0". Transnational Supply Chain Research, 2(1), pp.1-23.
- Gomaa, Attia H., (2025), "Advancing Green Industrial Systems in the Era of Industry 4.0/5.0: A Comprehensive Review and Strategic Framework", Journal of Engineering and Applied Sciences Technology, 7(11), pp. 1-13.
- Gomaa, Attia H., (2025), "Applications of Industry 4.0 in Smart Manufacturing (Manufacturing 4.0): A Comprehensive Review, Gap Analysis, and Strategic Framework", Innovative Computing Perspectives, 1(1), pp. 1-14.
- Gomaa, Attia H., (2025), "Transforming Manufacturing from Industry 4.0 to Industry 6.0: A Comprehensive Review, Gap Analysis, and Strategic Framework", Interdisciplinary Systems for Global Management (ISGM), 1(1), pp. 29-51.
- Gomaa, Attia H., (2025), SCM 4.0 Excellence: A Strategic Framework for Smart and Competitive Supply Chains. International Journal of Management and Humanities (IJMH), 11(8), pp. 24-44.
- Gomaa, Attia H., (2025), LSS 4.0: A Conceptual Framework for Integrating Lean Six Sigma and Industry 4.0 for Smart Manufacturing Excellence. Indian Journal of Management and Language (IJML), 5(1), pp. 8-29.
- Gomaa, Attia H., (2025), Lean 4.0: A Strategic Roadmap for Operational Excellence and Innovation in Smart Manufacturing. International Journal of Emerging Science and Engineering (IJESE), 13(5), pp.1-20.
- Gomaa, Attia H., (2025), "Advancing Kaizen 4.0 for Smart Manufacturing Excellence: A Comprehensive Review and Conceptual Framework for Continuous Improvement", Mechanical Theory and System, 1(1), pp. 1-21.
- Gomaa, Attia H., (2025), Smart Maintenance in Industry 4.0: Optimizing Equipment Performance Through Digital Twins and Lean Six Sigma Integration. IUP Journal of Mechanical Engineering, 18(1), pp.7-31.
- Gomaa, Attia H., (2025), RCM 4.0: A Novel Digital Framework for Reliability-Centered

Maintenance in Smart Industrial Systems. *International Journal of Emerging Science and Engineering (IJESE)*, 13(5), pp. 32-43.

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- Gomaa, Attia H., (2025), “Value Engineering in the Era of Industry 4.0: From Gap Analysis to Research Methodologies and Strategic Framework”, *Intelligent and Sustainable Manufacturing*, 2(1), pp. 1-18.
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- Gomaa, Attia H., (2025), “Enhancing Failure Mode and Effects Analysis with Industry 4.0 (FMEA 4.0): A Comprehensive Review and Strategic Framework”, *International Journal of Darshan Institute of Engineering Research and Emerging Technologies*, 14(2), pp. 1-12.
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- Gomaa, Attia H., (2024), “Advancing Manufacturing Excellence in the Industry 4.0 Era: A Comprehensive Review and Strategic Integrated Framework”, *Supply Chain Research*, 2(2), pp.1-37.

Process Planning & Optimization

- Saleh Alheta, Sayed Zayan, Tamer Mahmoud, and Attia Gomaa, (2016), “Optimization of Friction Stir Spot Welding Process Parameters for AA6061-T4 Aluminium Alloy Plates “, *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)*, Vol. 20, No 1, pp. 244-253.
- Hamzawy, N., Zayan, S. A., Mahmoud, T.S. and Gomaa, Attia H., (2016), “On the Optimization of GasMetalArc Welding Process Parameters”, 1st International Conference in Material Science and Engineering, 1CMSE, Shoubra Faculty of Engineering, Banha University, Cairo.
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2010 International Mechanical Engineering Congress and Exposition: American Society of Mechanical Engineers, pp. 137–146.

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- Mohamed A. Ismail, Attia H. Gomaa, Ashraf O. Nassef, (2008), “Solving the Multi-Objective Facility Layout Problem Using Evolutionary Multi-Objective Optimization Algorithms”, ASME 2006 International Manufacturing Science and Engineering Conference, MSEC2006-21067, pp. 547-555.
- Afefy, I. H., El-Dib ,A. F. & Gomaa, Attia H., (2007), “ THERMOECONOMIC ANALYSIS OF A CO²GENERATION PLANT BASED ON PRODUCTIVE STRUCTURE TECHNIQUE”, Engineering Research Journal 114, M33-M46.
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- Hassan, M.F., Gomaa, Attia H., NASSEF, A.O. & Kassem, S.S., (2004), “Machine Cell Formation Considering Capacity and cell Utilization constraints” Scientific Bulletin Ain-Shams University, Faculty of Engineering, Vol. 39, No. 3.
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- Gomaa, Attia H., (2004), “Computer Aided Process Planning Optimization (cappO) System for Machined Parts” Scientific Bulletin Ain-Shams University, Faculty of Eng., Vol. 39, No. 2.
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- Hassan, M. F., Wifi, A. S., and Gomaa, Attia H., (1996), "Computer Aided Process Planning Optimization System for Ferrous Castings", The 6th Cairo University International MDP Conference, Cairo, Vol. II. pp.515-530.
- Wifi A.S., Hassan, M. F., Gomaa, Attia H., (1996), "Computer-aided optimal charge and energy balance for cupola furnace", Proceedings of The Sixth Cairo University International MDP Conference, Cairo, 2-4 January 1996, pp. 521-532.