

RESUME

Personal

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Affiliation: Faculty of Engineering, Helwan University, Cairo, Egypt
Position: Associate Prof. - Industrial Eng. Division Mech. Eng. Dept.
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Marital Status: Married, one kid.

Academic Qualifications

- **Ph.D., Channel Program between Helwan University & California State University, Pomona, CA, USA, 1991**
Title: *MRP under Stochastic Demand and Multi-Level Product Structure*
- **M.Sc. Eng., Helwan University, Egypt, 1985**
Title: *Inventory Control Systems Applied to Construction Equipment Spare Parts*
- **B.Sc., Production Engineering, Helwan University, Egypt, 1980**
First of the class

Academic History

- Visiting Professor, Faculty of Engineering, **Qatar University** (2004 – 2005)
- Associate Professor, Faculty of Engineering, Helwan University (200\ -Present)
- Visiting Professor, **UAE, University-** Ain, UAE, (Feb.- June 2000)
- Assistant Professor, Faculty of Engineering, Helwan University (1991-2000)
- Visiting Scholar, **University of Dayton, OH, USA, (1995-1997)**
- Lecturer, Faculty of Engineering, Helwan University, (1985-1989)
- Demonstrator, Faculty of Engineering, Helwan University, (1980-1985)

Teaching Courses Experience

- Engineering Statistics
- Project Management
- Experimental Design
- Operations Research
- Production Planning & Control
- Production Costs customizing & Productivity Improvement
- Material Control
- Quality Assurance
- Quality Control

Comprehensive-Consulting & Training Experience

A variety of programs for different public and private agencies. Examples include:

- . Production Planning & Control
- . Maintenance Management
- . Project Management
- . Cost Engineering
- . Quality Assurance
- . Value Engineering

Research Experiences

- * Vice manager of Egyptian Technical Faculties Developing Project (ETCP) 2008-۲۰۱۰
- * The PI associate in developing a QA proposal (CIQAP project) in Helwan Faculty of Engineering.
- * Participation in accrediting the Mechanical Eng. Dept. (Qatar University) to ABET, American Educational QA standards for engineering (2005).
- * Consultant for “Techno Green” Company for Fertilizer Industry (2007-2008)
- * The PI associate in developing a QA system (QAAP project) in Helwan Faculty of Engineering (2006-2008), and a team member of Helwan University Quality Center.

- * Information System Designer, **DATEL Company, Dayton, USA (1996)**
- * Research Associate in a project titled:
Application of ISO-9002 in Kahromica Company (1994)
Funded by Kahromica Co.
- * Research Associate in a project titled:
Application of ISO-9001 in a Basic Industrial Support Sector
Funded by the USAID (1993)
- * Research Assistant in a project titled:
Development of the Private Sector in Egypt (1986-1988)
- * Research Assistant in a project titled:
Development of Textile Industry in Egypt
Funded by the USAID (1982-1984)
- * Research & Consultation for Softil-Co for plastic Films (2007 – 2009)

List of Publications

1. El-Gayar, F., Abdulaal, R., and Hussein, M., "Inventory Control Applied to Construction Equipment Spare Parts", Ain Shams University Conf. Proceedings, Cairo, Egypt, 1987.
2. Shalaby, M.A., and Hussein M., "A new Branch and Bound Lot Sizing Heuristic for Multi-Level Product Structure With Time Varying Demand", Int. Conf. of Cairo University Proceedings MDP-5, Cairo, Egypt, 1991.
3. Hussein, M., "Maintenance Management Six-Step Plan", Tabbin Institute Journal, 1993.
4. Hussein, M., "An Adjusted Least-Period Cost Approach for Lot Sizing Under Quantity Discount", Journal of Engineering and Applied Science, Cairo University, 1995.
5. Hegazy, A., Hussein, M., Mostafa, M. and Abdel-Naby, M. "Expert System for Troubleshooting Automotive Engines", International Conf. of AI, EXPERSYS-95, San Francisco, CA. USA, 1995
6. Sweeny, P., and Hussein, M., "Improving Non-Stationary Demand Lot Sizing Under Quantity Discount" Annual ASEM Conf. Proceedings, Virginia, USA, 1995.
7. Hussein, M., "Enhancement of Process/Product Performance Through Reliability Analysis", National Aerospace & Electronics Conf. NAECON, Dayton, OH, USA, 1996.
8. Sweeny, P., and Hussein, M., "Capability Indices and Process Evaluation", ASEM, Texas, USA, 1996.
9. El-Agizy, M., and Hussein, M., "Distribution Requirements Planning Algorithm for Bulk and Packaged Products Having Continuous Demand", Journal of Engineering and Applied Science, Cairo University, 1997.
10. Hussein, M., "Analysis of Quality Characteristics for Processes with Dynamic Mean Variation", Engineering Research Journal, Helwan University, 1998.
11. Hussein, M., "Effects of Static and Dynamic Mean Variation on The Process Capability", Int. Conf. Of Cairo University MDP-7, Feb 2000.
12. Hussein, M., "Lot Sizing with Demand Uncertainty: A Fuzzy Set Theory Approach", Journal of Engineering Research, Ain Shams University, July 2000.
13. Mario, J., Hussein, M., and Hassan M.M., "The Current State of the Art in TT and its Impact on Developing Nations: A Preliminary Analysis", Annual ASEM Conf. Proceedings, Alabama, USA, 2001.
14. Abdel-Aziz A. Hegazy, Moh. Hussein Hassan, Moh. Mostafa Hassan , "Evaluation of Technology Transfer Options", International Seminar at the Damascus University, TU-Berlin, DAAD, Senate-Berlin, Syria, 27-31/3/2004.
15. Hassan M. H., and Hassan M.M., "A Total Performance measure- based Technology Transfer Model", Mansoura 4th Int. Engineering Conference, 20-22 April, 2004.
16. Etamn M. I., Hussein M., and Abbass H., "Process Quality Control Using Neural Network", 8th International Conference on Production Engineering Design and Control, PEDAC'2004, December 2004, Alexandria , Egypt.
17. Mario, J., Hegazy, A., Hussein, M., and Hassan M.M., "A Computerized Technology Transfer Model and Its Application to Painting Systems Technology", Annual ASEM Conf. Proceedings, Virginia, USA, 2005.

18. Mohammed Hussein, Mohammed Etamn and Haytham Abbass, “ Performance Analysis of Neural Network in Single and Bivariate Process Statistical Quality Control”, proceedings of the 37th International Conference on Computers and Industrial Engineering, October 20-23, 2007, Alexandria, Egypt, pp 1840-1851.
19. Mohammed H. Hassan, “Optimizing the Gaussian-Distributed Filling Process Parameters”, International Journal of Agile Systems and Management, Vol.3, No. 1/2, 2008, pp 163-174.
20. Hisham Al-Mubaid , Emad S. Abouel Nasr, and Mohammed Hussein, “A Methodology For mining material properties with unsupervised learning”, International Journal of Rapid Manufacturing, Vol. 1, No. 2, 2009, pp 237-252.
21. Mohammed H. Hassan, “Controlling and Improving Quality of the Fertilizer Production Process Using neural network Models”, International Journal of Process System Engineering, (To be published).
22. Mohammed Hussein , and Safaa Diab, “New Approaches for Online Visual Inspection of Products with Multiple-Characteristics and Known Tolerances”, International Journal of Rapid Manufacturing, Vol.1 No. 3, 2010, pp 363-375.
23. Mohammed H. Hassan, and Safaa L. Diab, “Visual Inspection of Products with Geometrical Quality Characteristics of Known Tolerances”, Ain Shams Engineering Journal (ASEJ), (To be published).