

Emad Abouel Nasr

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Mechanical Engineering Department
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EDUCATION

- Ph.D., University of Houston, Department of Industrial Engineering, Houston, TX, USA, 2005.
Dissertation Title: A Feature-Based Methodology for Integrating Design and Manufacturing, GPA: **(4.0/4.0)**.
- M.Sc., University of Helwan, Cairo, Egypt, Department of Production Engineering, 1997.
Thesis Title: Development of a Heuristic Technique to Solve Sequencing Problems with Limited Buffer Storage
- B.S., University of Helwan, Cairo, Egypt, Department of Production Engineering, 1992. GPA: **ranked at the top 1st place of the whole school.**

PROFESSIONAL EXPERIENCE

- Assistant Professor, Industrial Engineering, Faculty of Engineering-Helwan, Mechanical Engineering Department, Helwan University, Cairo, Egypt, 2006-present.
- Instructor, October University for Modern Sciences and Arts (MSA), Faculty of Engineering, Industrial systems Engineering Department, Summer 2007- present.
- Instructor, Canadian International Collage (CIC), Faculty of Engineering, Manufacturing Department, Fall 2007- present.
- Research Assistant, Industrial Engineering, University of Houston, TX, USA, (2001- 2006).
- Teaching Assistant, Industrial Engineering, University of Houston, TX, USA, (Fall 2004 – 2005).
- Lecturer, Production Engineering, Helwan University, Cairo, Egypt, 1997 – 2001.
- Instructor, Production Engineering, Helwan University, Cairo, Egypt, 1993 – 1997.
- Training Internships at Arab British Company for Dynamic Industries, Cairo, Egypt, 1990.
- Training Internships at Egypt Air Company, Cairo, Egypt, 1990.
- Training Internships at Jacob Delfon Company, Cairo, Egypt, 1997.

RESEARCH INTERESTS

- Systems Engineering
- Operation Research
- Automation
- Product Design Life Cycle
- Rapid Prototyping and Manufacturing
- Advanced Manufacturing Systems
- Computer Integrated Manufacturing

TEACHING INTERESTS

- Engineering Economics.
- Engineering Statistics.
- Reliability and Quality Control.
- Statistical Process Control
- Engineering Economics.
- Operations Research.
- Experimental Design.
- Advanced Engineering Statistics.
- Maintenance Planning and Control
- Production Planning and Control.
- Simulation
- Computer Aided Design.
- Manufacturing Processes.
- Computer Aided Manufacturing.
- Computer Integrated Manufacturing
- Integrated Product Design.
- Modern Manufacturing Systems.
- Work Study and productivity enhancement

Training Courses

- Reliability and Failure Analysis
- Project Cycle Management
- Quality Control in Electrical Products.
- Supply Chain Management.
- The Five Keys to Total Quality Environment (5 S)

PUBLISHED BOOKS

- Ali K. Kamrani and Emad Abouel Nasr (Editors), **Rapid Prototyping: Theory and Practice**, Springer, 2006.
- Emad Abouel Nasr and Ali K. Kamrani, **Computer-based Design and Manufacturing: An Information-Based Approach**, Springer, 2007.
- Ali K. Kamrani and Emad Abouel Nasr, **Collaborative Engineering: Theory and Practice**, Springer, 2008.

- Ali K. Kamrani and Emad Abouel Nasr, **Engineering Design and Rapid Prototyping**, Springer, 2009 (In Progress)

BOOK CHAPTERS

- Emad Abouel Nasr, and Ali K. Kamrani, “IGES Standard Protocol for Feature Recognition CAD System” *Rapid Prototyping: Theory and Practice*, 2005.
- Emad Abouel Nasr and Ali K. Kamrani, “Intelligent Design and Manufacturing”, *Collaborative Engineering: Theory and Practice*, Springer, 2008.

PUBLICATIONS

REFEREED JOURNAL

- Ali K. Kamrani and Emad Abouel Nasr, “Product Design and Development Framework in Collaborative Engineering Environment”, *International Journal of Computer Applications in Technology (IJCAT)*, Vol. 32, No. 2, pp. 85-92, 2008.
- Mahammad Aloudat, Ali K. Kamrani, and Emad Abouel Nasr, “Cellular Manufacturing Performance Improvement Using Data Mining Techniques”, *International Journal of Knowledge Management Studies (IJKMS)*, Vol. 2, No. 4, pp. 387-405, 2008.
- Hesham Al-Mubid, Emad Abouel Nasr, and Ali K. Kamrani, “Using Data Mining in the Manufacturing Systems for CAD Model Analysis and Classification”, *International Journal of Agile Systems and Management (IJASM)*, Vol. 3, No. 1/2, pp. 147-162, 2008.
- Emad Abouel Nasr, and Ali K. Kamrani, “A New Methodology For Extracting Manufacturing Features From CAD System”, *International Journal of Computer and Industrial Engineering*, Vol. 51, pp. 389-415, 2006.
- Emad Abouel Nasr, and Ali K. Kamrani, A New Methodology for Extracting Manufacturing Entities from IGES Standard, *International Journal of Production Research*, 2008 (In Progress).
- Emad Abouel Nasr, and Ali K. Kamrani, A New Methodology for Integrating CAD and CAM toward Standardization, *Journal of Computers in Industry*, 2008(In Progress).
- Emad Abouel Nasr, and Ali K. Kamrani, Standardized Methodology for Extracting Interacted Manufacturing Features, *Journal of Intelligent Manufacturing*, 2008 (In Progress).

National & International Conferences

- Abouel Nasr, E. S., Abd El-Aal, R.M.S., and Etman, M.E., New Approach for Flow Sequencing Problems with Buffer Storage Constrains, *Proceeding of the PEDAAC, 6th International Conference on Production Engineering Design and Control*, Alexandria, Egypt, 1997, pp. 831-840.

- Emad Abouel Nasr, Abhay Vijayan, and Ali Kamrani, A Feature Based Approach For Integrated Product Design and Process planning, 34th International Conference on Computers and Industrial Engineering, San Francisco, California, November 2004.
- Abhay Vijayan, Emad Abouel Nasr and Ali Kamrani, Template Based Integrated Design: A Cased Study, 34th International Conference on Computers and Industrial Engineering, San Francisco, California, November 2004.
- Emad Abouel Nasr, and Ali Kamrani, An Object Oriented Approach To Extract Manufacturing Features For CAM Applications, 16th Annual Conference of POMS, April 29 - May 2, 2005, Chicago, IL.
- Emad Abouel Nasr, and Ali Kamrani, Developing a new Methodology for integrating Design and Manufacturing, IIE Annual Conference, Orlando, Florida, May 20-24, 2006.
- Hisham Al-Mubaid, Emad Abouel Nasr, Data Mining Based Approach for Feature Analysis in the Manufacturing Systems, 37th International Conference on Computers and Industrial Engineering, Alexandria, Egypt, October 2007.
- Emad Abouel Nasr, Ali Kamrani, A Feature Interaction Approach for CAM Applications, 37th International Conference on Computers and Industrial Engineering, Alexandria, Egypt, October 2007.
- Gad El Mola, K. M. and Emad S. Abouel Nasr, Typology and Important Characteristics of Manufacturing Performance Measurement, Proceedings of the 9th Cairo University International Conference on Mechanical Design and Production, Cairo, Egypt, 8-10 January, 2008.
- Emad S. Abouel Nasr and Khaled M. Gad El Mola. Developing a Methodology for Extracting Manufacturing Entities from Standard Data Formats. Proceedings of the 9th Cairo University International Conference on Mechanical Design and Production, Cairo, Egypt, 8-10 January, 2008.

JOURNALS

- **Associate Editor:** International Journal of Collaborative Enterprise (IJCent), (2007-Present).
- **Guest Editors:** International Journal of Computer Applications in Technology (IJCAT), Special Issue on: "Computer Based Design and Manufacturing", (2008).
- **Guest Editors:** International Journal of Agile Systems and Management (IJASM), Special Issue on: "Complexity in Manufacturing" (2008).

Review Papers

- International Journal of Production Research (IJPR)

COMPUTER KNOWLEDGE

CATIA V5	IDEAS	UNIGRAPHICS
Mechanical Desktop	ARENA	LINDO
AutoCAD	Factory CAD	Windows XP
Word, Excel	Power Point	C and C++

PRESENTATIONS

- Emad Abouel Nasr: Paper presented in 16th Annual Conference of POMS, April 29 - May 2, 2005, Chicago, IL.
- Emad Abouel Nasr: Paper presented in 34th International Conference on Computers and Industrial Engineering, San Francisco, California, November 2004.
- Emad Abouel Nasr: Paper presented in 37th International Conference on Computers and Industrial Engineering, Alexandria, Egypt, October 2007.
- Emad Abouel Nasr: Paper presented in 9th Cairo University International Conference on Mechanical Design and Production, Cairo, Egypt, 8-10 January, 2008.

SCIENTIFIC, HONOR, AND PROFESSIONAL SOCIETIES

- Alpha Pi Mu (Industrial Engineering Honor Society)
- Institute of Industrial Engineers (IIE)
- Society of Manufacturing Engineers (SME)

REFERENCES

- **Ali K. Kamrani, Ph.D.** (Ph.D. Advisor)
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University of Houston, TX
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