

Ali Alavizadeh

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Education

Indiana State University, Terre Haute, IN, 2007

Ph.D. in Technology Management-Manufacturing Systems

Dissertation: Case studies on the uses of Axiomatic Design methodology in the U.S. industries

Advisor: Dr. Sudershan K. Jetley

Morehead State University, Morehead, KY, 2000

MS in Vocational and Technology Education

Thesis: The determination of the failure in the stator coil windings due to the voltage surge using MATLAB Software

Thesis Advisor: Dr. Ahmad Zargari

Sharif University of Technology, Tehran, Iran, 1996

BS in Applied Physics

Academic Experience

Morehead State University, Morehead, KY

Assistant Professor of Industrial Technology

Spring 2007 – Present

Bowling Green State University, Bowling Green, OH

Instructor of Record

Spring 2002 – Spring 2005

Morehead State University, Morehead, KY

Graduate Assistant

Spring 1999 – Fall 2000

Research Interests

- Systems Engineering
- Systems Modeling and Simulation

Current Projects

- Working in Disaster Response working group of Global Earth Observation System of Systems (GEOSS) project
- Design and development of a paperless registration system for Technology Student Association annual competition held at Morehead State University (Morehead, KY)
- Design for sustainability consideration in the students' robot project.

Courses Taught

- Applied industrial management (face to face and online)
- Concurrent engineering
- Hydraulics and pneumatics
- Introduction to manufacturing systems
- Just in time and lean systems (face to face and online)
- Mechanical power transmission
- Quality control (face to face and online)
- Total quality improvement (face to face and online)

Publications

Books/Book Chapters

1. Alavizadeh, A., Jetley, S. (2008). Case studies on the uses of Axiomatic Design methodology in the U.S. industries . Germany: VDM Verlag Dr. Müller AG & Co.
2. Alavizadeh, A., & Mohammed, J. (2008). Quality Assurance with Project Management. In Handbook of Technology Project Management, Planning, and Operation (in publish).

Conference Papers

1. Mohammed, J., May, J., & Alavizadeh, A. (2008). *Application of Computer Aided Design in Knowledge Based Engineering*. Proceedings of the International Journal of Modern Engineering Conference.
2. Zargari, A., & Alavizadeh, A. (2001). The Determination of Failure in Stator Winding due to Over-Voltage using Matlab Software. *Proceedings of the Electrical Insulation Conference and Electrical Manufacturing and Coil Winding Conference, USA*, 615-621. Imperial Beach, CA.
3. Alavizadeh, A., Zargari, A., & Grise, W., R. (1999). The application of ANSYS software in analyzing and predicting thermal and thermoelastic behavior. *Proceedings of the Electrical Insulation Conference and Electrical Manufacturing and Coil Winding Conference, USA*, 583-588. Imperial Beach, CA.

Journals

1. Alavizadeh, A., Jetley, S. (2007). Case studies on the uses of Axiomatic Design methodology in the U.S. industries. Article re-submitted to Research in Engineering Design Journal (Springer) for the final review.

Presentations

1. Mohammed, J., May, J., & Alavizadeh, A. (2008). *Application of Computer Aided Design in Knowledge Based Engineering*. Presented at the National Association of Industrial Technology (NAIT) Conference. Nashville, TN.
2. You, Y., Mohammed, J., & Alavizadeh, A. (2008). Introducing SAP production module in a manufacturing information systems course. Presented at the National Association of Industrial Technology (NAIT) Conference. Nashville, TN

3. Alavizadeh, A. (2007). Case studies on the usage of Axiomatic Design methodology in the U.S. industries. Presented at the Kentucky Academy of Science. Louisville, KY.
4. Alavizadeh, A., & Jetley, S (2004). *Redesign of the battery terminal lug using Axiomatic Design method*. Presented at the National Association of Industrial Technology (NAIT) Conference. Louisville, KY.
5. Brown, A., & Alavizadeh, A. (2004). *Structural analysis: An FEA case study*. Presented at the National Association of Industrial Technology (NAIT) Conference. Louisville, KY.
6. Brown, A., & Alavizadeh, A. (2003). *Apply FEA to assure design intent*. Presented at the National Association of Industrial Technology (NAIT) Conference. Nashville, TN.
7. Brown, A., & Alavizadeh, A. (2003). *Apply FEA to assure design intent*. Poster session presented at Technology Fair at Bowling Green State University, Bowling Green, OH.
8. Alavizadeh, A. (2001). *The determination of failure in stator winding due to over-voltage using Matlab software*. Paper selected by the Research Division to be presented at the National Association of Industrial Technology (NAIT) Conference. Dearborn, MI.
9. Alavizadeh, A. (2001). *The determination of failure in stator winding due to over-voltage using Matlab software*. Poster session presented at Technology Fair at Bowling Green State University, Bowling Green, OH.
10. Alavizadeh, A., & Zargari, A., Grise, W., R. (2001). The Determination of Failure in Stator Winding due to Over-Voltage using Matlab Software. Paper presented at the Electrical insulation Conference and Electrical Manufacturing and Coil Winding Conference, Cincinnati, OH.
11. Alavizadeh, A., & Zargari, A., Grise, W., R. (1999). *The application of ANSYS software in analyzing and predicting thermal and thermoplastic behavior*. Paper presented at the Electrical insulation Conference and Electrical Manufacturing and Coil Winding Conference, Cincinnati, OH.

Professional Activities and Services

Membership

- The International Council on Systems Engineering (INCOSE)
- National Association of Industrial Technology (NAIT)

Services

- Serving on the International Education Board and Magellan Exchange Student program (Morehead State University, Morehead, KY, 2006 – Present).
- Served as the board member of Integrated Manufacturing Advisory Committee (Bowling Green State University, Bowling Green, OH, 2002-2003).
- Served on the board of the University Planning Council (Bowling Green State University, Bowling Green, OH, 2003-2004).
- Served on the Board of Persian-American Regional Society (Toledo, OH, 2002-2004).

Talks

- Gave a lecture in the Senior Center on International Democracy (Bowling Green, and Perrysburg, OH, 2004).

Workshop

- International Workshop (IW 2009) on Systems Engineering. Sponsored by International Council on Systems Engineering (INCOSE), San Francisco, CA, January 30th - February 2nd, 2009
- Project Lead the Way (PLTW) training on Introduction to Engineering Design. (University of Maryland at Baltimore County, Baltimore, Maryland, July - August 2007).
- One-day NSF workshop on grant opportunities and the proposal review process (Oak Ridge National Lab, Oak Ridge, TN, April 2007).
- One-week intensive course on Complex Physical, Biological & Social System (New England Complex Systems Institute, Cambridge, MA, January 9- 13, 2006)

Honors

- Recipient of the outstanding graduate student in the department of industrial education and technology (Morehead State University, Morehead, KY, 2000)
- Nominated for the outstanding teaching assistant award (Bowling Green State University, Bowling Green, OH, 2005)

Reference

Available upon request