Past Dissertations

This document provides a listing of completed Ph.D. dissertations in the Department of Industrial Engineering & Management Systems from the Summer Semester of 1984 to the Spring Semester of 2007. The purpose is to provide information to interested Ph.D. students and to help them identify research topics of interest. The listing will be periodically updated.

### Spring 2009

- **Name:** Rochelle Jones  
  **Advisor:** Dr. Pamela McCauley-Bush  
  **Title:** Physical Ergonomic and Mental Workload Factors of Mobile Learning Affecting Performance and Satisfaction Levels of Adult Professional Distance Learners: Student Perspective

- **Name:** Suebpoing Kittirattanapaiboo  
  **Advisor:** Dr. Christopher Geiger  
  **Title:** Emergency Evacuation Route Planning Considering Human Behavior during Short and No-Notice Emergency Situation

- **Name:** Christopher Reid  
  **Advisor:** Dr. Pamela McCauley-Bush  
  **Title:** Occupational Lower Extremity Risk Assessment Modeling
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<th>Name</th>
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<tr>
<td>Robert Sottilare</td>
<td>Dr. Michael Proctor</td>
<td>Using the Student’s Mood and Task Performance to Train Classifier Algorithms to Select Effective Coaching Strategies with Intelligent Tutoring Systems (ITS)</td>
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<td>Tareq Ahram</td>
<td>Dr. Pamela McCauley-Bush</td>
<td>Information Retrieval Performance Enhancement Using the Average Standard Estimator and the Multi-Criteria Decision Weighted Set of Performance Measures</td>
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<td>Stochastic Resource Constrained Project Scheduling with Stochastic Task Insertion Problems</td>
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<td>Dr. Pamela McCauley-Bush</td>
<td>Based Modeling and Visualization of Crew Race Strategy and Performance</td>
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<td>Gary Johnson</td>
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<td>Defining Risk Assessment Confidence Levels for Use in Project Management Communications</td>
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Name: Oscar Martinez  
Advisor: Dr. Christopher Geiger  
Title: Multiobjective Coordination Models for Maintenance and Service Parts Inventory Planning and Control

Name: Monica Philippart  
Advisor: Dr. Waldemar Karwowski  
Title: Improving Business Performance through the Integration of Human Factors Engineering into Organizations Using a Systems Engineering Approach

Name: Catherine Vergopia  
Advisor: Dr. Tim Kotnour  
Title: Project Review Maturity and Project Performance. An Empirical Case Study

**Summer 2008**

Name: Magdy Helal  
Advisor: Dr. Luis Rabelo  
Title: A Hybrid System Dynamics-Discrete Event Simulation Approach to Simulating the Manufacturing Enterprise

Name: Adam Maamoun  
Advisor: Dr. Linda Malone  
Title: A Surrogate Method to Measure Customer Satisfaction for the Printed Winning Boards Manufacture

Name: Adriana Rodriguez
Advisor: Dr. Linda Malone
Title: Framework to Align Strategy Improvement Performance & Customer Satisfaction Using an Integration of Six Sigma and Balanced Scorecard

Name: Sami Spahi
Advisor: Dr. Yasse Hosni
Title: Optimizing the Level of Customization for Products in Mass Customization Systems

Spring 2008

Name: Karla Moore
Advisor: Dr. Luis Rabelo
Title: Value Mapping Framework Involving Stakeholders to Improve Supply Chain Performance when Implementing IT Project.

Name: Dayana Cope
Advisor: Dr. Jose Sepulveda
Title: Automatic Generation of Supply Chain Simulation Model From SCOR Based Ontologies

Name: Ana Ferreras
Advisor: Dr. Lesia Crumpton-Young
Title: A Comprehensive Multi-Faceted Approach for Simultaneously Analyzing Organizational Performance Measures Essential for Company Success.
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<tr>
<td>Florian Hafner</td>
<td>Dr. Jose Sepulveda</td>
<td>A Multi-Objective Airport Demand Management Approach to Strategically Optimize Airline Schedule Reliability using an Evolutionary Runway Slot Assignment Algorithm.</td>
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<td>Amani Saleh</td>
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<td>Modeling Lane-Based Traffic Flow in Emergency Situations in the Presence of Multiple Heterogeneous Flows.</td>
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<td>Katherine Meza</td>
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<td>The Creation of Tools and Models to Characterize and Quantify User Centered Design Considerations in Product and System Development.</td>
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<td>Abeer Sharawi</td>
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<td>Optimization Models for Emergency Relief Shelter Planning for Anticipated Hurricane Events</td>
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<td>Isabelina Nahmens</td>
<td>Dr. Michael Mullens</td>
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</table>
Title: Mass Customization Strategies and Their Relationship to Lean Production in the Homebuilding Industry.

Name: Wajdi Wazzan
Advisor: Dr. Kent E. Williams
Title: Cognitive Learning from Computer-Based Information Systems by Incorporating Knowledge Construction Interventions.

Name: Alicia Wilson
Advisor: Dr. Robert Armacost
Title: Decision Maker Trade-Offs on Multiple Response Surface Optimizations.

Name: Ali Ahmad
Advisor: Dr. Kay Stanney
Title: Design for Auditory Display: Identifying Temporal and Spatial Information Conveyance Principles.

Spring 2007

Name: Rey Diaz
Advisor: Dr. Timothy Kotnour
Title: Management Systems Fit for Organizational Performance

Name: Erica Egri
Advisor: Dr. Linda Malone
Title: Enhancing Situational Awareness through Haptics Interaction in Virtual Environment Training Systems.
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<tr>
<td>Jennifer Grey</td>
<td>Dr. Robert Armacost</td>
<td>Prediction and Allocation of live to Virtual Communication Bridging Resources.</td>
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<td>Jessica Mock-McLaughlin</td>
<td>Dr. Lesia Crumpton-Young</td>
<td>A Real Option Scorecard Framework for Information Technology Project Selection.</td>
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<td>Leaha Reeves</td>
<td>Dr. Kay Stanney</td>
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<td>Serge Sala-Diakanda</td>
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<td>James Barnard</td>
<td>Dr. Mansooreh Mollaghasemi</td>
<td>A Multi-View Framework for Defining the Services Supply-Chain Using Object Oriented Methodology.</td>
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<td>Kelly Kingdon Hale</td>
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Advisor: Dr. Kay Stanney
Title: Enhancing Situational Awareness through Haptics Interaction in Virtual Environment Training Systems.
Name: Stephanie Lackey
Advisor: Dr. Linda Malone
Title: Prediction and Allocation of live to Virtual Communication Bridging Resources.
Name: Cesar Munoz
Advisor: Dr. Luis Rabelo
Title: A Real Option Scorecard Framework for Information Technology Project Selection.
Name: Kati Ollikainin
Advisor: Dr. Linda Malone
Title: Parameter Estimation in linear Regression.
Name: Nabin Sapkota
Advisor: Dr. Charles Reilly
Title: Simulation of Random Set Covering Problems with Know Optimal Solutions and Explicitly Induced Correlation among Coefficients.
Name: Tarek Shaalan
Advisor: Dr. Christopher Geiger
Title: Optimizing the Global Performance of Multi-Stage, Build-to-Order Supply Chains.
Name: Timothy Barth  
Advisor: Dr. Julia Pet-Armacost  
Title: Influence Map Methodology For Evaluating Systemic Safety Issues

Name: Alper Camci  
Advisor: Dr. Timothy Kotnour  
Title: An Assessment Alignment between Project Complexity and Project Management Style

Name: Jeffery Dawson  
Advisor: Dr. Luis Rabelo  
Title: A Holistic Usability Framework for Distributed Simulation Systems

Name: Hamidreza Eskandari  
Advisor: Dr. Christopher D. Geiger  
Title: Multiobjective Simulation Optimization Using Enhanced Evolutionary Algorithm Approaches

Name: Seyhun Hepdigan  
Advisor: Dr. Gary Whitehouse  
Title: MetaRaPS: Parameter Setting and New Applications

Name: Carolyn Mizell  
Advisor: Dr. Linda Malone
Spring 2006

Name: Luis Beltran
Advisor: Dr. Linda Malone
Title: Quantity Assessment of Software Development Project Management Issue Using Process Simulation Modeling With System Dynamics Element

Name: Julie Drexler
Advisor: Dr. Malone
Title: Nonparametric Multivariate Statistical Process Control Using Principal Component Analysis and Simplicial Depth

Name: Michael Woodman
Advisor: Dr. Michael Proctor
Title: Identification of System Design Features that Affect Sickness in Virtual Environments

Name: Nabeel Yousef
Advisor: Dr. Jose Sepulveda
Title: Framework for Cost Modeling a Supply Chain

Fall 2005

Name: Maria Bauer
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<tr>
<td><strong>Advisor:</strong> Dr. Michael Proctor</td>
<td><strong>Title:</strong> Evaluating the Effectiveness of Simulator Approaches for Highly Complex Flight Training</td>
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<tr>
<td>Name: Miriah McMurran</td>
<td>Advisor: Dr. Renee Butler</td>
<td>Title: Achieving Cost-Effective Supply Chain Agility</td>
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<td><strong>Summer 2005</strong></td>
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<tr>
<td>Name: Jose Nunez</td>
<td>Advisor: Dr. Dr. Timothy Kotnour</td>
<td>Title: Development of a knowledge management (KM) model in large-scale international space science projects (LISSPs)</td>
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<td>Name: Ahmad Rahal</td>
<td>Advisor: Dr. Luis Rabelo</td>
<td>Title: Assessment framework for the evaluation and prioritization of university technologies for licensing and commercialization</td>
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<td><strong>Spring 2005</strong></td>
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<tr>
<td>Name: Mohamed Fayez</td>
<td>Advisor: Dr. Mansoor Mollaghasemi</td>
<td>Title: An automated methodology for the comprehensive definition of supply chains using generic ontological</td>
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Thomas O'Neal
Advisor: Dr. Dennis Kulonda
Title: Exploring incubator quality - A systematic approach

Mohammad Asiri
Advisor: Dr. Ahmad Elshennawy

Grant R. Cates
Advisor: Dr. Mansooreh Mollaghasemi
Title: Improving Project Management With Simulation And Completion Distribution Functions

Angela Sist
Advisor: Dr. Julia Pet-Armacost
Title: Decision Support Model For Construction Crew Re-Assignments

Shatha N. Samman
Advisor: Kay Stanney and Dr. Valerie Sims
Title: Multimodal Computing: Maximizing Working Memory Processing

Spring 2004

Name: Sandra Furterer
Advisor: Dr. Ahmad Elshennawy
Title: A Framework For Implementing Lean Six Sigma In Local Government Entities

Name: David Gross
Advisor: Kay Stanney
Title: Affordances in the design of virtual environments

Fall 2003

Name: Chien Wei Chia
Advisor: Dr. Kent Williams
Title: Soar CGFs That Learn Inductively: A Hybrid Autonomous Approach Based On a Modified Naïve Bayes Learning Algorithm

Name: Gorana Knezevic-Zec
Advisor: Dr. Ahmad Elshennawy
Title: Development of Confidence Intervals for Process Capability Assessment Using Bootstrap Methodology
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<td>Rafael Landaeta</td>
<td>Dr. Timothy Kotnour</td>
<td>Knowledge Management Across Projects</td>
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<td>Phillip Hash</td>
<td>Kay Stanney</td>
<td>Irrelevant Information: Human Performance And Psychophysiological Effects</td>
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<td>Phillip Meade</td>
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<td>Development of a Framework for Managing the Product Life Cycle Using Chaos and Complexity Theories</td>
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<td>Christopher Hill</td>
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<td>Analysis of Large Data Sets with Linear and Logistic Regression</td>
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<td>Jose Sierra</td>
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<td>Quality Constraint Approach: A Six Sigma/Throughput Approach in Manufacturing to Achieve Company Success and Continuous Improvement</td>
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<td>Somoap Talabgaew</td>
<td>Dr. Ahmad Ishennawy</td>
<td>Modeling and Predicting the Performance of Coordinate Measuring Machines</td>
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<td>Robert Wittman</td>
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<td>A Taxonomy of Didactic Features and Evaluation Framework for Team Oriented Simulation Based Training Systems</td>
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<td>Basma Selim</td>
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<td>Design, Simulation, and Optimization of a Fully Dynamic X-Bar Process Control Procedure</td>
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<td>Mohammed Arif</td>
<td>Dr. Dennis Kulonda</td>
<td>The Design of an Enterprise Information System: A Document Approach</td>
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Name: Robert Claflin
Advisor: Dr. Pamela McCauley-Bell
Title: Motorcycle Rider Posture Prediction: The Prediction of Spinal Curvature as a Function of Anthropometrics and Point-of-Contact Chassis Design

Name: Susumu Ninomiya
Advisor: Dr. Kent Williams
Title: Hybrid Learning Approach Based on Adaptive Resonance Theory and Reinforcement Learning for Computer Generated Agents

Name: Chintanai Praisont
Advisor: Dr. Ahmad Elshennawy
Title: Using Economic Model to Evaluate the Performance of Control Shop

Spring 2002
Name: Rosida Coowar
Advisor: Dr. Linda Mlone
Title: Screening Design for Large Numbers of Variables

Name: Reinaldo Moraga
Advisor: Dr. Gary Whitehouse
Title: Meta-Raps: An Effective Solution Approach for Combinatorial Problems
Name: John A. Picciuto  
Advisor: Dr. Pamela McCauley-Bell  
Title: Development of Comprehensive Quantitative Ergonomic Evaluation Methodology for Bio-Defense Weapons Systems

Name: Kristine Relvini  
Advisor: Dr. Pamela McCauley-Bell  
Title: The Development, Analysis, and Application of a Multifactor, Quantifiable Confined Space Human Performance Model

Name: Martin Steele  
Advisor: Dr. Mansooreh Mollaghasemi  
Title: The Categorization and Parameterization of Simulation Input Models Using Neural Networks

Fall 2001

Name: Andrew Cowell  
Advisor: Dr. Kay Stanney  
Title: Increasing the Credibility of Anthropomorphic Computer Characters: The Effects of Manipulating Nonverbal Interaction Style and Demographic Embodiment

Name: Ola Harrysson  
Advisor: Dr. Yasser Hosni
Title: Customization of Biomedical Prosthesis Using CT and Rapid Prototyping Technologies
Name: Wesley Milks
Advisor: Dr. Michael Proctor
Title: Realization of Multiresolution Modeling Through Domain Engineering
Name: Elizabeth Sheldon
Advisor: Dr. Linda Malone
Title: Virtual Agent Interactions

Summer 2001

Name: Shih-Shen Chou
Advisor: Dr. William Thompson
Title: Model Extensions for Evaluating Timing Strategies with Duopolistic Completion

Name: David Graeber
Advisor: Dr. Kay Stanney
Title: Use of incremental adaptation and habituation regimens for mitigating optokinetic side effects

Name: Mahdi Nasereddin
Advisor: Dr. Mansiireh Mollaghasemi
Title: An Evaluation of Genetic Algorithms to Find Optimal Weights on Heuristics for Stochastic Resource Constrained Project Scheduling Problems
Name: Greg Schow  
Advisor: Dr. Michael Proctor  
Title: Conceptual Modeling of Applied Research Projects

Name: Todd Dvorak  
Advisor: Dr. Robert Hoekstra  
Title: Response Surface Optimization Techniques for Multiple Objective and Randomly Valued Independent Variable Problems

Name: Henrik Hedlund  
Advisor: Dr. Mansooreh Mollaghasemi  
Title: Genetic Algorithm and an Indifference-Zone Ranking and Selection Procedure Under Common Random Numbers Framework Simulation Optimization

Name: Michael Johnson  
Advisor: Dr. Mansooreh Mollaghasemi  
Title: Methodology for Human Behavior Modeling in Computer Generated Forces

Name: Nabil Rami  
Advisor: Dr. Michael Proctor  
Title: Physically-Based Modeling and Real-Time Simulation of Terrain Cratering and Fragmentation Due to Explosions
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<td>Linda Trocine</td>
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<td>An Efficient, Effective, and Robust Procedure for Screening More Than Twenty Variables Employing a Genetic Algorithm</td>
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<td>Crash Quality- An Approach for Evaluating Spending on Quality Improvement Initiatives</td>
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<td>Multiresponse Simulation Optimization Using Stochastic Genetic Search Within a Goal Programming Framework</td>
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<td>Deborah Carstens</td>
<td>Dr. McCauley-Bell</td>
<td>Development of Human Factor Password Guidelines for Authentication with Passwords</td>
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**Spring 2000**

Name: Charles Cromer  
Advisor: Dr. Linda Malone  
Title: Development of Theory for Near-Optimized Selection of Machinery for Production of Convective Dryer-Air in Industrial Applications

Name: Jae Woong Lee  
Advisor: Dr. Gene Lee  
Title: Effects of Aging on Pilot Performance Measured in Response Time During Emergency Situations

Name: Lobna Rubin  
Advisor: Dr. Mansooreh Mollaghasemi  
Title: A Simulation Analysis of the Effect of Autonomy on Warehouse Cycle Time

**Fall 1999**

Name: Jui-Lin Chen  
Advisor: Dr. Kay Stanney  
Title: A Model of Wayfinding in Virtual Environments: Strategies for Navigational Aids

Name: Neil Finkelstein  
Advisor: Dr. Kay Stanney  
Title: Charting the Retention of Tasks Learned in Synthetic Virtual Environments
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<td>Guru Prasad</td>
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<td>An Experimental Testbed for Assessing Consistency of Distributed Simulations with Spatio-Temporal Environments</td>
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<td>Ameer Salem</td>
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<td>Unrelated Parallel Machine Scheduling with Sequence-Dependent Setup Times and Machine Eligibility Restrictions for Minimizing the Makespan</td>
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<td>Lisa Armour</td>
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**Fall 1998**

Name: Rhonda Freeman  
Advisor: Dr. Pamela McCauley-Bell  
Title: Agent Multiple Intelligences: A Methodology for Measuring Agent Intelligence

**Summer 1998**

Name: Roger Brill  
Advisor: Dr. James Ragusa  
Title: A Comparison of Classification Algorithms for Use in Dynamic- Adaptive (D-A) Information Systems

Name: Griselle Centeno-Rodriguez  
Advisor: Dr. Robert Armacost  
Title: Parallel Machine Scheduling with Specified Release Dates, Due Dates, and Machine Eligibility Restrictions for Minimizing Makespan and Maximum Lateness

Name: Eugene Paulo  
Advisor: Dr. Linda Malone  
Title: Methodology for the Increased Computational Efficiency of Discrete-Event Simulation of Autonomous Objects in 3-Dimensional Space
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<td>Linda Welsh</td>
<td>Dr. Linda Malone</td>
<td>Characteristics of TQM Training and Their Relationships to Effective TQM Implementation in K-12 Educational Organizations</td>
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<td>Hyunjoon Kim</td>
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<td>Grace Bocheneck</td>
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<td>Comparative Analysis of Virtual 3-D Display Systems- Contributions to Cross-Functional Team Collaboration in a Product Design Review Environment</td>
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<td>Mark Heileman</td>
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<td>A Comparison of Production Manufacturing and Control Strategies in a Remanufacturing Job Shop</td>
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<td>Deborah Osborne</td>
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<td>Necessary Conditions for Optimization of Multiple Response Functions and a New Multiple Response Surface Methodology</td>
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<td>David Dryer</td>
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<td>The display configuration, perspective, and intent (CPI) matrix: Development of a framework and methodology for advancing the design of graphical displays</td>
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<td>Maged Malek</td>
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<td>Constructability Assessment Using Fuzzy Logic Modeling</td>
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<td>Ayman Wasfy</td>
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<td>Modeling and Real-Time Simulation of Two-Party Negotiations: An integrated Fuzzy Logic Approach</td>
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</table>
Name: Thomas A. Gawlik  
Advisor: Dr. Michael Mullens  
Title: A Methodology For Facilitating Axiomatic Design Using Network Partitioning

Name: George F. Stone III  
Advisor: Dr. James Ragusa  
Title: Automated Planning To Enhance The Efficiency & Effectiveness Of Using Simulations For Team Training

Name: Gamal S. Waheba  
Advisor: Dr. Yasser Hosni  
Title: Economic Strategies For Continuous Quality Improvement In Manufacturing Systems

Name: Gary J. Harless  
Advisor: Dr. Ralph Rogers  
Title: Improving Computational Efficiency In The Discrete Event Simulation Of Non-Uniformly Distributed Autonomous Spatial Objects

Name: William C. Hopkinson II  
Advisor: Dr. Jose Sepulveda  
Title: Toward A Paradigm For Validating Decision Making In Man-In-The-Loop Simulations

Name: Cathy R. Moo Young

Fall 1995
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<th>Author</th>
<th>Advisor</th>
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<tr>
<td>Analysis Of Risk Of Extreme Events In Scheduling Problems With Stochastic Task Durations</td>
<td>Dr. Julia Pet-Armacost</td>
<td>Dr. Robert Armacost</td>
<td>Summer 1995</td>
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<tr>
<td>An Optimal Solution to the Resource Constrained Scheduling Problem with Stochastic Task Durations</td>
<td>Abel A. Fernandez</td>
<td>Dr. Robert Armacost</td>
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<td>A Dynamic Performance-Based Student Model For An Intelligent Simulation Training System</td>
<td>Jenifer S. McCormack</td>
<td>Dr. John Biegel</td>
<td>Spring 1995</td>
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<td>Priority Rule Search Technique for Resource Constrained Project Scheduling</td>
<td>James T. Brown</td>
<td>Dr. Robert Armacost</td>
<td>Fall 1994</td>
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<td>Analytical Process Disaggregation Procedure Supporting Competitive Benchmarking Initiatives</td>
<td>Andrew E. Jackson</td>
<td>Dr. Robert Safford</td>
<td>Fall 1994</td>
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<td>An Automated Knowledge Acquisition Archetype For An Intelligent Individualized Instruction System</td>
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<td>Peter J. Mcalindon</td>
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<td>The Development And Evaluation Of The Keybowl: A Study Of An Ergonomically Designed Alphanumeric Input Device</td>
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<td>James J. Davern</td>
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<td>Gajanana Nadoli</td>
<td>Dr. John Biegel</td>
<td>Ritcag: A Rule-Based, Intelligent Test Case Generator</td>
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Name: Ahmad A. Moreb
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Title: Efficient Algorithms For The Fixed Charge Problem

Summer 1987

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