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# Bahram Alidaee, Ph.D.

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## Professor of Operations Management Professor of Pharmacy Administration

### Academic Background

Ph.D. The University of Texas at Arlington, Arlington, TX, Mathematical Sciences, 1988

M.B.A. The University of North Texas, Denton, TX, Production and Operations Management (Industrial Management), 1981

B.S. The University of Tehran, Iran, Business Administration, 1975

### Academic Experience

Professor of Operations Management, School of Business Administration, University of Mississippi (2005 - Present), University, Mississippi.

Joint Professor in Pharmacy Administration, University of Mississippi, School of Pharmacy (2005 - Present), University, Mississippi.

Interim Chair of the Department of Marketing, University of Mississippi (January, 2017 - March, 2018), University, Mississippi.

Joint Associate Professor with Pharmacy Administration, School of Pharmacy, University of Mississippi (1997 - 2005), University, Mississippi.

Associate Professor of Operations Management, School of Business Administration, University of Mississippi (1997 - 2005), University, Mississippi.

Assistant Professor of Operations Management, School of Business Administration, University of Mississippi (1995 - 1996), University, Mississippi.

Assistant Professor and Associate Professor, West Texas A & M University (1988 - 1995), Canyon, Texas.

### Refereed Articles

Wang, H. & Alidaee, B. (in press, 2018). Effective Heuristic for Large-Scale Unrelated Parallel Machines Scheduling Problems. *Omega: The International Journal of Management Science*.

Wang, H. & Alidaee, B. (in press, 2018). Unrelated Parallel Machine Selection and Job Scheduling with the Objective of Minimizing Total Workload and Machine Fixed Costs. *IEEE Transactions on Automation Science and Engineering*.

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Du, S., Daigle, J., & Alidaee, B. (2011). Upper bounding service capacity in multi-hop wireless SSMA-based ad hoc networks. *Ad Hoc Networks*, 9, 120-130.

Alidaee, B., Wang, H., & Landram, F. (2011). On the Flexible Demand Assignment Problems: Case of Unmanned Aerial Vehicles. *IEEE Transactions on Automation Science and Engineering*, 8 (4), 865-868.

Landram, F., Landram, S., Wang, H., & Alidaee, B. (2010). Maintaining a Successful Statistical Help Laboratory. *Decision Sciences Journal of Innovative Education*, 8 (2), 422-428.

Alidaee, B., Gao, H., & Wang, H. (2010). A Note on Task Assignment Problems. *Computers & Industrial Engineering*, 59, 1015-1018.

Weeks, K., Gao, H., Alidaee, B., & Rana, D. (2010). An Empirical Study of Impacts of Production Mix, Product Route Efficiencies on Operations Performance and Profitability: A Reverse Logistics Approach. *International Journal of Production Research*, 48 (4), 1087-1104.

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- Ablenado, J., Gao, H., Alidaee, B., & Teng, W. (2009). Allocation of Emergency and Recovery Centers in Hidalgo, Mexico. *International Journal of Service Sciences*, 2 (2), 206-218.
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- Alidaee, B. (1993). Two Parallel Machine Sequencing Problems Involving Controllable Job Processing. *European Journal of Operational Research*, 70 (3), 335-342.
- Alidaee, B. (1993). Numerical Methods for Single Machine Scheduling with Nonlinear Cost Functions to Minimize Total Cost. *Journal of Operational Research Society*, 44, 125-132.
- Alidaee, B. & Panwalkar, S. (1993). Single Stage Minimum Absolute Lateness Problem with a Common Due Date on Non-identical Machines. *Journal of Operational Research Society*, 44, 29-36.
- Alidaee, B. (1992). Maximizing Set Function Formulation of Two Scheduling Problems. *ZOR Methods and Models of Operations Research*, 36, 409-416.
- Alidaee, B. (1992). Optimal Assignment of NOP Due-Dates and Sequencing in a Single Machine Shop. *ZOR Methods and Models of Operations Research*, 36, 333-341.
- Alidaee, B. & Ahmadian, A. (1992). Weighted Earliness Tardiness Problem in Single Machine. *International Journal of Engineering*, 3, 63-75.
- Alidaee, B. (1992). Scheduling of n Jobs on Two Identical Machines to Minimize Weighted Mean Flow Time. *Computers & Industrial Engineering*, 24, 53-55.
- Alidaee, B. (1991). Optimal Assignment of Slack Due Date and Sequencing in a Single Machine Shop. *Applied Mathematics Letters*, 4 (2), 9-11.
- Alidaee, B. (1991). A Note on Permutationally Convex Games. *Theory and Decision*, 30, 109-111.
- Alidaee, B. (1991). Single Machine Scheduling with Nonlinear Cost Functions. *Computer & Operations Research*, 18 (3), 317-323.
- Alidaee, B. (1990). A Heuristic Solution Procedure to Minimize Makespan in Single Machine Scheduling. *Journal of Operational Research Society*, 41 (11), 1065-1068.
- Alidaee, B. (1989). Analyzing Total Cost for a Single Machine and n Jobs by use of a Symmetric Matrix Arising from a Quadratic Form of Service Times. *The Logistics and Transportation Review*, 24 (4), 367-374.

## Papers Under Review

- Ramalingam, V. & Alidaee, B. (2018). "Local Optimality Conditions for Quadratic Integer Programming Problems," Initial submission to *Journal Of The Operational Research Society*.
- Ablanedo, J., Zhang, Z., Ruiz-Torres, A., & Alidaee, B. (2018). "Corporate sustainability assessment: A cross-efficiency model in the presence of dual-role factors," Initial submission to *International Journal of Production Economics*.
- Alidaee, B. & Wang, H. (2017). "Scheduling Unrelated Parallel Machines: Data Structure and Approximation Algorithm," Initial submission to *Omega*.
- Alidaee, B. & Wang, H. (2016). "Unrelated Parallel Machine Selection and Job Scheduling with the Objective of Minimizing Total Workload and Machine Fixed Costs," Conditional acceptance to *IEEE Transactions on Automation Science and Engineering*.
- Alidaee, B., Wang, H., Kethley, B., & Landram, F. (2016). "A Unified View of Parallel Machine Scheduling with Interdependent Processing Rates," Initial submission.
- Ramalingam, V. & Alidaee, B. (2015). "Local Optimality Conditions for Quadratic Integer Programming Problems," Revised and resubmitted.
- Kochenberger, G., Glover, F., Alidaee, B., & Wang, H. (2005). "Attractive Nonlinear Models: Calling Into Question the Tenet of Linearity for Combinatorial Problems," Initial submission.
- Alidaee, B., Glover, F., Kochenberger, G., Lewis, M., & Lewis, K. (2005). "Modeling and Solving Set Packing Problems via Unconstrained Quadratic Programming," Initial submission to *European Journal of Operational Research*.
- Kochenberger, G., Glover, F., Alidaee, B., & Wang, H. (2004). "Solving the Maximum Edge Weight Clique Problem via Unconstrained Quadratic Programming," Initial submission to *European Journal Of Operational Research*.

## Book

- Alidaee, B. & Altinakar, M. (2008). *International Journal of Service Sciences* Inderscience Publishing. (Editor)
- Rego, C. & Alidaee, B. (2005). *Adaptive Memory and Evolution: Tabu Search and Scatter Search*, Kluwer Academic Publisher.

## Book Chapters

### Refereed

- Rego, C., Alidaee, B., & Kochenberger, G. (2003). Managerial Issues in Complex Planning Procedures: A Case Study of QFD. In J. Cha, R. Jardim-Goncalves, and A. Steiger-Garcia (Eds.), *Concurrent Engineering Advanced Design, Production and Management Systems*. Tokyo, Japan: Balkema Publisher.
- Kochenberger, G., Glover, F., Alidaee, B., & Rego, C. (2002). Solving Combinatorial Optimization Problems via Reformulation and Adaptive Memory Metaheuristics. In Menon & Doldberg, D. (Eds.), *Revolutionary Visions in Evolutionary Computations*. Kluwer Publishers.
- Glover, F., Alidaee, B., Kochenberger, G., & Amini, M. (2002). Solving Quadratic Knapsack Problems by Reformulation and Tabu Search. Single Constraint Case. In P. Pardalos, A. Migdalas, & R. Burkard (Eds.), *Combinatorial and Global Optimization* (pp. 111-121). World Scientific Publications.
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Enhanced Application for Binary Quadratic Programs. In S. Voss, S. Martello, I. Osman, and C. Roucairol (Eds.), *Meta-Heuristics, Advances and Trends in Local Search Paradigms for Optimization* (pp. 93-109). Kluwer.

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## Monograph

Wang, H., Alidaee, B., & Lu, Z. (2016). *International Journal of Aerospace Engineering*.

## Refereed Proceedings

### Full Paper

Wang, H., Alidaee, B., & Wang, W. (2012). Critical Infrastructure Management for Telecommunication Networks. *Lecture Notes in Computer Science (7669)*, 493-501.

Daigle, J., Du, S., & Alidaee, B. (2009). Upper Bounding Service Capacity in Multihop Wireless SSMA-Based Ad Hoc Networks. *Ad Hoc Networks (ADHOCNETS)*.

Shiron, S., Daigle, J., & Alidaee, B. (2009). Upper Bounding Service Capacity in Multihop Wireless SSMA-Based Ad Hoc Networks. *ADHOCNETS, Proceedings* .

Wang, H., Alidaee, B., Li, J., He, J., & Altinakar, M. (2008). Critical Infrastructure Management with Failure Front Prediction for Water Security. *Proceeding of RAC2008, Advances in Intelligent System Research, Guanzhou, China, 6* , 15-22.

Lin, R., Wang, H., Alidaee, B., & Kochenberger, G. (2007). Preferable-Interval Approaches to the Single-Sink Fixed-Charge Transportation Problem. *International Conference on Management Innovation, 1*, 12 pages.

Alidaee, B., Altinakar, M., & Wang, H. (2007). A Decision Support Tool for Emergency Management Planning. *International Conference on Management Innovation, 1*, 7 pages.

Wang, H., Alidaee, B., & Xu, Y. (2006). An Attractive Alternative Modeling and Solution Approach for Market Segmentation,. *Decision Sciences Institute Meeting*.

Wang, H., Alidaee, B., & Kochenberger, G. (2004). Evaluating a Clique Partitioning Problem Model for Clustering Data Mining. *America's Conference on Information Systems (AMCIS)*.

Grierstorfer, P., Rego, C., & Alidaee, B. (2003). A Filter-and-Fan Approach for the Facility Location Problem. *Metaheuristics International Conference*.

Naidu, J. & Alidaee, B. (1997). A New Hybrid heuristic to Minimize the Single Machine Total Tardiness. *Decision Sciences Institute Meeting* .

Hwang, C. P., Alidaee, B., & Johnson, J. (1996). Comparison of Recent Metaheuristic Procedures for Large Traveling Salesman Problem. *Decision Sciences Institute Meeting*.

Chou, D. & Alidaee, B. (1995). A Comparison Study of Software Quality Control. *Decision Sciences Institute Meeting, 1700-1702*.

Alidaee, B. (1990). Minimizing Weighted Absolute Deviation in a Single Machine Scheduling. *Decision Sciences Institute Meeting, 56-57*.

Chou, D. & Alidaee, B. (1990). A Comparison of the Experimental Behaviors on Inflation and Interest Rates in the U.S. and West Germany. *Decision Sciences Institute Meeting, 460-462*.

Alidaee, B. (1989). Scheduling of n Jobs on a Single Machine Where each Job has a Differentiable Cost Function. *Mountain Plain Management Association, 129-140*.

Alidaee, B. (1989). A New Class of Sequencing Games. *Mountain Plain Management Association*, 140-150.

### **Abstract Only**

Alidaee, B. & Wang, H. (2017). Unrelated Parallel Machine Selection and Job Scheduling with the Objective of Minimizing Total Workload and Machine Fixed Costs, in Presence of Outsourcing. *Metaheuristics International Conference, 12*, id1-id3.

## **Working Papers**

Alidaee, B. & Wang, H. (2016). "Unrelated Parallel Machine Selection and Job Scheduling with the Objective of Minimizing Total Workload and Machine Fixed Costs."

Alidaee, B. & Wang, H. (2016). "Scheduling Unrelated Parallel Machines: Data Structure and Approximation Algorithm."

Alidaee, B. (2004). "Formulation and Solution Procedure for Quality Function Deployment."

Alidaee, B. (2004). "Integer Programming Solutions and Algorithms for Certain Graph Theoretic Problems in Bioinformatics."

## **Presentation of Refereed Papers**

### **International**

Alidaee, B. & Wang, H. (2018). *A Robust Planning System for Agricultural Management: Modelling and Algorithm*. The 5th International conference of Control, Dynamic Systems, and Robotics (CDSR'18),, Niagara, Canada-Ontario.

Wang, H. & Alidaee, B. (2018). *Decision Support Systems(DSS) using Data Driven Service Composition for Transportation of Security Sensitive Cargo*. Production and Operations Management, Houston, Texas.

Alidaee, B. & Wang, H. (2017). *A robust planning system for agricultural management*, POMS International Conference,. Production and Operations Management, Sydney, Australia.

Alidaee, B. & Wang, H. (2017, June). *Unrelated Parallel Machine Selection and Job Scheduling with the Objective of Minimizing Total Workload and Machine Fixed Costs, in Presence of Outsourcing*. Metaheuristics International Conference, Barcellona, Spain.

Wang, H. & Alidaee, B. (2017, May). *Deploying sensors and high performance position systems in precision agriculture*,. Production and Operations Management, Seattle, Washington.

Alidaee, B., Wang, H., & Ramalingam, V. (2016). *Heuristic approaches for general integer multi-dimensional knapsack problem*. CORS/INFORMS Joint International Conference (Canadian Operations Research Society/Institute for Operations Research and the Management Sciences),, Banff, Canada-Alberta.

Alidaee, B. & Wang, H. (2014). *Integer Programming Formulations of Flexible Coloring TSP*. 14th Annual Hawaii International Conference on Business, Honolulu, United States of America.

Li, H. & Alidaee, B. (2014). *Tabu Search for Solving the Black-and-White Travelling Salesman Problem*. INFORMS, San Francisco, United States of America.

Ramalingam, V., Alidaee, B., & Wang, H. (2014, November). *Modeling General Integer Programming problems using XQX*. INFORMS, San Francisco, United States of America.

Wang, H., Alidaee, B., & Wang, W. (2013). *Critical Infrastructure Management for Telecommunication Networks*. 8th International Conference, AMT 2012,, Macau, China.

Alidaee, B. & Li, H. (2013, July). *Parallel Machine Selection and Job Scheduling in the Context of Supply Chain Logistics*. The Economics, Finance, MIS & International Business Research Conference, London, GB., London, Great Britain.



- Alidaee, B. (2012). *Critical Nodes Detection Problem: New formulation and Heuristic*. Rome International Academic Conference (The Clute Institute), Rome, Italy.
- Alidaee, B. & Li, H. (2012). *Parallel Machine Selection And Job Scheduling To Minimize Sum Of Costs Of Machine Holding, Total Machine Times, And Total Tardiness*. 2012 Bangkok International Academic Conference (The Clute Institute), Bangkok, Thailand.
- Daigle, J., Du, S., & Alidaee, B. (2009). *Upper Bounding Service Capacity in Multihop Wireless SSMA-Based Ad Hoc Networks*. Ad Hoc Networks (ADHOCNETS), Niagara, Canada.
- Gao, H. & Alidaee, B. (2007). *Preventive Maintenance Scheduling with Multi-Skilled Workforce Constraints for Supply Chain Management*. Decision Sciences Institute, Phoenix, Arizona.
- Kethley, B. & Alidaee, B. (2007). *Single Machine Scheduling to Minimize A Modified Total Weighted Late Work Function*. Decision Sciences Institute, Phoenix, Arizona.
- Wang, H., Alidaee, B., & Atinakar, M. (2007). *Developing Decision Support and Optimization Tool for Emergency and Infrastructure Management*. Decision Sciences Institute, Phoenix, Arizona.
- Alidaee, B., Altinakar, M., & Wang, H. (2007, June). *A Decision Support Tool for Emergency Management Planning*. International Conference on Management Innovation, Shanghai, China.
- Lin, R., Wang, H., Alidaee, B., & Altinakar, M. (2007, June). *Preferable-Interval Approaches to the Single-Sink Fixed-Charge Transportation Problem*. International Conference on Management Innovation, Shanghai, China.
- Wang, H., Alidaee, B., & Xu, Y. (2006, November). *An Attractive Alternative Modeling and Solution Approach for Market Segmentation*. Decision Sciences Institute Meeting, San Antonio, Texas.
- Kochenberger, G., Glover, F., Alidaee, B., & Wang, H. (2005, June). *Attractive Nonlinear Models: Calling Into Question the Tenet of Linearity for Combinatorial Problems*. Metaheuristics International Conference, Vienna, Austria.
- Wang, H., Alidaee, B., & Kochenberger, G. (2004). *An Efficient Approach to Group Technology Problem in a Flexible Manufacturing System*. INFORMS, Denver, Colorado.
- Wang, H., Alidaee, B., & Kochenberger, G. (2004). *Local Search Heuristic Algorithms for Complex Network*. INFORMS, Denver, Colorado.
- Xu, Y., Conlon, S., Wang, H., Alidaee, B., & Kochenberger, G. (2004, October). *Query Expansion Using Support Vector Machine*. INFORMS, Denver, Colorado.
- Alidaee, B., Glover, F., Kochenberger, G., & Lewis, K. (2004, May). *An Application of Filter-and-Fan to Satisfiability Problem*. INFORMS, Banff, Canada.
- Kochenberger, G., Glover, F., Alidaee, B., & Wang, H. (2003). *The Unconstrained Quadratic Binary Programming Approach to Combinatorial Optimization*. INFORMS, Atlanta, California.
- Kochenberger, G., Alidaee, A., & Wang, H. (2003). *New Methodology for Clustering Data Mining*. INFORMS, Atlanta, California.
- Alidaee, B. & Kochenberger, G. (2002). *Fast Heuristics for Maximum Independent Set on a Graph*. INFORMS, San Jose, California.
- Rego, C., Amini, M., Alidaee, B., Glover, F., & Kochenberger, G. (2002, July). *Scatter Search for Unconstrained Binary Quadratic Program*. IFORS, Edinburgh, Scotland.
- Alidaee, B., Ghandforoush, P., & Kochenberger, G. (2001). *Fast Heuristics for Very-Large-Scale Maximum Independent Set & Related Problems Using Neural Networks Approach*. INFORMS, Miami Beach, Florida.
- Glover, F., Kochenberger, G., & Alidaee, B. (2001). *New Heuristic Approaches to Graph Optimization & Related Problems*. INFORMS, Miami Beach, Florida.
- Alidaee, B., Glover, F., & Kochenberger, G. (2000). *An Effective Solution of Very-Large-Scale Binary*

*Quadratic Programs*. INFORMS, San Antonio, Texas.

Alidaee, B., Glover, F., & Kochenberger, G. (2000). *One-pass Algorithms for Binary Quadratic Programming*. INFORMS, Salt Lake City, Utah.

Alidaee, B., Glover, F., & Kochenberger, G. (2000). *Applications of Binary Quadratic Programming*. INFORMS, Salt Lake City, Utah.

James, T., Johnson, J., & Alidaee, B. (2000). *Distributed Genetic Algorithms for Training Neural Networks on Large Databases for Data Mining Applications*. INFORMS, Salt Lake City, Utah.

Wang, H., Alidaee, B., & Kochenberger, G. (2000). *An Improved Parallel Neural Network Solution on the Maximum Clique Problem*. INFORMS, San Antonio, Texas.

Alidaee, B., Glover, F., Kochenberger, G., & Wang, H. (2000, August). *The Comparison of Parallel Programming Techniques Applied to the Maximum Clique Problem*. 17th International Symposium on Mathematical Programming, Atlanta, Georgia.

Alidaee, B., Glover, F., & Kochenberger, G. (2000, July). *Solving the 0/1 Unconstrained Quadratic Programming Problem via the Roof Dual*. 17th European Conference on Operations Research, Budapest, Hungary.

Alidaee, B., Glover, F., & Kochenberger, G. (2000, July). *One-pass Algorithms for Very Large Binary Quadratic Programs*. 17th European Conference on Operations Research, Budapest, Hungary.

Alidaee, B., Amini, M. M., & Kochenberger, G. (1998). *Application of tabu Search, Scatter Search and the Unconstrained Quadratic Binary Program*. INFORMS, Seattle, Washington.

Alidaee, B., Amini, M. M., & Kochenberger, G. (1998). *Greedy Solutions of Selection and Ordering Problems*. INFORMS, Seattle, Washington.

Amini, M. M., Alidaee, B., Glover, F., & Kochenberger, G. (1998). *A New Evolutionary Heuristic Approach to the Quadratic Optimization Problem: A case Study of the Scatter Search*. INFORMS, Seattle, Washington.

Kochenberger, G., Alidaee, B., & Amini, M. M. (1998). *Applying Scatter Search and tabu Search to Quadratic Binary Programs*. INFORMS, Montreal, Canada.

Kochenberger, G., Alidaee, B., & Amini, M. M. (1998). *A New Scatter Search (Evolutionary) Method for the Zero-One Quadratic Problem*. INFORMS, Monterey, California.

Alidaee, B., Amini, M., & Kochenberger, G. (1997). *Applications of Unconstraint Binary Quadratic Program*. International Conference on Metaheuristics, Unknown, France.

Amini, M. M., Alidaee, B., & Racer, M. (1997, October). *Alternative Meta-heuristic Approaches for the Multi-resource Generalized Assignment Problem*. INFORMS, Dallas, Texas.

Naidu, J., Alidaee, B., & Gillenwater, E. (1997, October). *Heuristic Approaches to Minimize Tardiness Problems on Single Machine with Sequence Dependent Set-up Times*. INFORMS, Dallas, Texas.

Hwang, C. P., Alidaee, B., & Johnson, J. (1996, October). *Applications of the Intelligent Multi-stage System in the Traveling Salesman Problem*. INFORMS, Atlanta, Georgia.

Naidu, J. & Alidaee, B. (1996, October). *MDD and Decomposition Rules for the Total Tardiness Scheduling Problem*. INFORMS, Atlanta, Georgia.

Alidaee, B. (1995, October). *Experimental Design for Combinatorial Optimization Problems*. INFORMS, New Orleans, Louisiana.

Alidaee, B. (1990, June). *Single Machine Scheduling to Minimize Total Cost with Nonlinear Cost Functions*. IFORS, Athens, Greece.

## **National**

Kochenberger, G., Glover, F., Alidaee, B., & Wang, H. (2005, February). *Improved Clustering of Microarray*

*Data for Genomics*. Conference on Systems Analysis, Data Mining and Optimization in Biomedicine, Unknown, Unknown.

Wang, H., Alidaee, B., & Kochenberger, G. (2004). *Enhanced Clustering Method for Predicting Outcome of Healthcare and Genomic Data*. American Association of Advancing Science, Seattle, Washington.

Wang, H., Alidaee, B., Kochenberger, G., & Glover, F. (2004, November). *Tabu Search Approach to Scale-free Network*. Decision Sciences Institute Meeting, Boston, Massachusetts.

Xu, Y., Wang, H., Alidaee, B., & Kochenberger, G. (2004, November). *Performance Evaluation of Local Search Heuristic Algorithms for Large Unconstrained Binary Quadratic Programming Problem*. Decision Sciences Institute Meeting, Boston, Massachusetts.

Pearson, K., Alidaee, B., & Rego, C. (2002, June). *Using Quality Function Deployment in NAVY Manpower Planning: A Supply Chain Management Approach*. Military Personnel Research Conference, Memphis, Tennessee.

Kethley, B., Alidaee, B., & Gillenwater, E. (1997, November). *Signal Machine Scheduling to Minimize Total Weighted Late Work: A Comparison of Traditional Scheduling Rules and the Genetic Algorithm using Taguchi Loss Functions*. Decision Sciences Institute Meeting, San Diego, California.

Landram, F., Alidaee, B., Shah, V., & Cook, J. (1997, November). *Projected Measures for Spreadsheet Regression*. Decision Sciences Institute Meeting, San Diego, California.

Landram, F., Alidaee, B., & Shah, V. (1996, November). *Testing R2: Confusion or Enlightenment*. Decision Sciences Institute Meeting, Orlando, Florida.

Alidaee, B. (1994, November). *A Heuristic Algorithm for Minimizing Makespan for Deteriorating Jobs on a Single Machine Scheduling*. Decision Sciences Institute Meeting, Honolulu, Hawaii.

Alidaee, B. (1994, October). *A Modified Due Date Algorithm for Weighted Tardiness Scheduling Problem with  $m$  machines*. ORSA/TIMS Meeting, Detroit, Michigan.

Alidaee, B. & Combs, R. (1993, November). *An Algorithmic Note for a Class of Single Machine Scheduling*. Decision Sciences Institute Meeting, Washington, District of Columbia.

Alidaee, B. (1993, October). *A Computational Experiment of COVERT\_AU Class of Rules for Single Machine Tardiness Scheduling*. ORSA/TIMS Meeting, Phoenix, Arizona.

Alidaee, B. (1992, November). *Scheduling Deteriorating Jobs on Single Machine*. ORSA/TIMS Meeting, San Francisco, California.

Alidaee, B. (1992, November). *Due Date Assignment and Job Scheduling on Parallel Machines*. Decision Sciences Institute Meeting, San Francisco, California.

Alidaee, B. & Chou, D. (1991, November). *Minimizing a Bicriterion Scheduling Problem Involving Flow Time and Range of Lateness*. Decision Sciences Institute Meeting, Miami Beach, Florida.

Alidaee, B. (1991, October). *Maximum Cut Set Formulation of Two Scheduling Problems*. ORSA/TIMS Meeting, Anaheim, California.

Alidaee, B. & Chou, D. (1990, November). *Simple Algorithm to Minimize Early/Tardy Problem in Single Machine Shop*. Decision Sciences Institute Meeting, San Diego, California.

Alidaee, B. (1990, November). *An Efficient Algorithm for Minimizing Mean Squared Deviations from a Common Due Date in Single Machine Scheduling*. Decision Sciences Institute Meeting, San Diego, California.

Alidaee, B. & Chou, D. (1990, October). *Optimal Assignment of NOP Due Date and Sequencing in a Single Machine Shop*. ORSA/TIMS Meeting, Philadelphia, Pennsylvania.

Chou, D. & Alidaee, B. (1990, October). *An Intelligent Decision Support System for Economic Development Planning Simple Algorithm to Minimize Early/Tardy Problem in Single Machine*. ORSA/TIMS Meeting,

Philadelphia, Pennsylvania.

Alidaee, B. (1990, March). *Single Machine Scheduling to Minimize Variance*. ORSA/TIMS Meeting, Las Vegas, Nevada.

Alidaee, B. (1990, March). *Minimizing Weighted Absolute Deviation in a Single Machine Scheduling*. Decision Sciences Institute Meeting, Dallas, Texas.

Alidaee, B. (1989). *A New Class of Sequencing Games*. ORSA/TIMS Meeting, New York, New York.

Alidaee, B. (1989, November). *Scheduling of  $n$  Jobs with a Single Machine to Minimize Total Cost when the Cost Functions are a Polynomial of Degree  $m$* . Decision Sciences Institute Meeting, New Orleans, Louisiana.

### **Regional**

Alidaee, B. (1989). *Scheduling of  $n$  Jobs on a Single Machine Where each Job has a Differentiable Cost Function*. Mountain Plain Management Association, Pueblo, Colorado.

Alidaee, B. (1989). *A Class of Sequencing Games*. Mountain Plain Management Association, Pueblo, Colorado.

Alidaee, B. (1987). *An A-Extension of Sequencing Games*. OMEGA/RHO Seminar Series, Dallas/Fort Worth Chapter, Texas.

## **Presentation of Non-Refereed Papers**

### **International**

Ramalingan, V. & Alidaee, B. (2012). *Random Oscillation Based Selection in Hopfield Network for Maximum Diversity Problems*. INFORMS, Phoenix, Arizona.

Wang, H. & Alidaee, B. (2012). *Critical Infrastructure Management for Telecommunication Networks*. INFORMS, Phoenix, Arizona.

Alidaee, B. & Wang, H. (2009). *A Unified View of Parallel Machine Scheduling with Interdependent Processing Rates*. Special Conference On Methods and Applications of Metaheuristics, Guangzhou, China-PRC.

Alidaee, B., Wang, H., Kethley, B., & Landram, F. (2008, November). *A Unified View of Parallel Machine Scheduling with Interdependent Processing Rates*. INFORMS, Washington, DC., District of Columbia.

Alidaee, B., Wang, H., & Altinakar, M. (2007). *Integer Programming Formulation for Graph and Network Optimization Problems*. INFORMS International Conference, Seattle, Washington.

Alidaee, B., Liu, W., & Wilkins, D. (2005, December). *Multi-exchange neighborhood search strategies for pseudo-Boolean optimization*. Twelfth Annual International Conference on Statistics, Combinatorics, Mathematics and Applications, Auburn, Alabama.

Liu, W., Alidaee, B., & Wilkins, D. (2005, December). *Multi-exchange neighborhood search strategies for protein side chain positioning*. Twelfth Annual International Conference on Statistics, Combinatorics, Mathematics and Applications, Auburn, Alabama.

Alidaee, B., Kochenberger, G., & Wang, H. (2005, October). *Attractive Nonlinear Models for Clustering and Other Combinatorial Problems*. INFORMS, San Francisco, California.

Liu, W., Alidaee, B., & Wilkins, D. (2005, October). *Tabu Search with New Hybrid Local Search for UQBP Problems*. INFORMS, San Francisco, California.

## **Research Grants**

### **Funded**

2006: Altinakar, M., Ying, X., Vieira, D., Wang, S., Alidaee, B., Weiming Wu, Yan Ding, Yaoxin Zhang, Hoghai Qi Simulation-Based Decision Support System for Water Infrastructural Security (DSS-WISE), Principal Investigator, GOV-National Science Foundation (NSF). Title: Simulation-Based Decision Support System for Water Infrastructural Security (DSS-WISE).

2005: Aliadee, B. Co-principal Investigator for 7 major grants, Principal Investigator, Office of Naval Research. 1998-2005 .

2005: Bahram, A. "Generalized Contact Map Graph Problems (GCMGP): Mathematical Programming Approaches and Algorithms." \$10,000, Summer 2005 , Principal Investigator, Hearin Faculty Research Support , School of Business Administration.

2005: Bahram, A. 1995-2005, 10 grants totaling \$95,000, Principal Investigator, University of Mississippi and Hearin Center for Enterprise Science.

2005: Wilkins, D., Alidaee, B., & Mathur, S., Bioinformatics development, Principal Investigator, Office of Research .

2005: Alidaee, B. & Lewis, M., Develop new technology to solve the integer programming problem and advance current methods for solving difficult optimization problems associated with, Principal Investigator, ONR/NSF.

2004: Bahram, A. "Generalized Graph Coloring Problems: Mathematical Programming Approaches and Algorithms." \$10,000, Summer 2004. The work on this research has been very productive and will be published in several journals, Principal Investigator, Hearin Faculty Research Support , School of Business Administration.

### **Not Funded**

2005: Alidaee, B. & Lewis, K., Exploration of Large Neighborhood Structure for Very-Large-Scale Image Segmentation Problem, NSF.

### **Pending**

2006: Wang, H. & Alidaee, B., Collaborative group for complex system research, GOV-National Science Foundation (NSF).

2005: Alidaee, B. Multi-Exchange Search Strategy for Very-Large-Scale Pseudo-Boolean Optimization, NSF.

## **Research Reports**

2006: Alidaee, B. & Lewis, M., Develop new technology to solve the integer programming problem and advance current methods for solving difficult optimization problems associated with., submitted to Unknown.

## **Research Honors and Awards**

### **Award**

2013: , The Economics, Finance, MIS & International Business Research Conference, London, GB..

2006: , School of Business, University of Mississippi. Outstanding Senior Researcher of the Year 2006.

2004: , Marquis Who's Who. Who's Who in American Education.

2004: , Academic Keys. Who's Who in Business Higher Education.

2003: , School of Business Administration, the University of Mississippi. Outstanding Senior Researcher of the Year.

2000: , Marquis Millennium Edition. Who's Who in Science in America.

1997: , School of Business Administration, the University of Mississippi. Researcher of the Year.

1995: , West Texas A & M University. First Research Excellence Award.

1992: , West Texas A & M University. First Research Excellence Award.

1987: , OMEGA/RHO, Dallas/Fort Worth Chapter. Best Student Research Paper Award.

## **Other Research Activities**

### **Other**

2005: , , . Analyzing of computer game for Gold Strike Casino, with the assistance of graduate student, Hongman Gao.

2004: , , . "Fly and Spider," a project for Gold Strike casino. With the assistance of graduate student, Colin Osterman, wrote a program to analyze computer program.

2004: , , . A research project for Ashley Furniture, on time study of furniture lines. Hongman Gao, a Ph.D. student in POM, assisted with this project.

## **Service to the University**

### **Department Assignments**

#### **Chair:**

2006-2007: Committee Chair, Dissertation Operations Management

2004-2005: MIS/POM Department, Faculty Search Committee

### **College Assignments**

#### **Member:**

2011-2012: MBA Committee

2006-2007: Member of TP Committee at the College

2004-2005: University of Mississippi, Faculty Senate

1997-1998 – 2004-2005: School of Business Administration, MBA Committee

### **University Assignments**

#### **Faculty Advisor:**

2002-2003 – 2004-2005: APICS Gum Tree Chapter-University of Mississippi

#### **Member:**

2011-2012: Faculty Senate

2011-2012: University Research Board

2006-2007: Member of Committee for evaluating research Grant Proposals

2006-2007: Committee member, Dissertation in Mathematics

2006-2007: Committee member, Dissertation in Hydraulic Engineering

2005-2006 – 2006-2007: Committee member, Dissertation in Telecommunication Engineering

2005-2006: Committee member, Dissertation in Telecommunication Engineering

2004-2005: University of Mississippi, Academic Task Force

2004-2005: University of Mississippi, School of Business Administration, Dean Search Committee

2003-2004 – 2004-2005: University of Mississippi, Faculty Senate

**Other Institutional Service Activities:**

2004-2005: University of Mississippi

**School of Business Administration, University of Mississippi**

**Department Assignments**

**Chair:**

2015-2016: Coordinator of Research Seminars at the Marketing Department

2006-2007: Committee Chair Dissertation in Operations Management

**Coordinator:**

2013-2014 – 2014-2015: Coordinator of Research Seminars at the Marketing department

**College Assignments**

**Member:**

2015-2016: Promotion Committee to full professorship for one faculty in MGMT Dept.

2013-2014: Committee member for Dissertation of Chris Reily in Marketing Department

**University Assignments**

**Member:**

2015-2016: Non-resident Admission Committee

2015-2016: Building, Ground and Innovation

**Dissertation Assignments**

**Chair:**

2013-2014: Vijay Ramalingam

2004-2005: Lutfu Sagbansua

2003-2004: Haibo Wang

1998-1999: Weiqi Li

1997-1998: Brian Kethley

1996-1997: Chen-Pei (James) Hwang

**Member:**

2015-2016: Shaohui Wang

2014-2015: Dissertation Committee member for Chris Schwanke

2004-2005: Robert Page--Mathematics  
2004-2005: Bennie Waller  
2003-2004: P. Kanok--Civil Engineering  
2003-2004: Bart Garner  
2002-2003: Duan Qiang--Engineering Science  
2002-2003: Yangil Park  
2002-2003: Tabitha James  
2001-2002: Xiaotong Li  
1999-2000: Zachary Wong  
1998-1999: Jaideep T. Naidu  
1998-1999: Queen Booker  
1996-1997: Randy Sexton

## **University of Mississippi, School of Pharmacy**

### **College Assignments**

#### **Chair:**

2010-2011: Clinical Asst. Prof. of Operation Management Search  
2008-2009: Clinical Asst Professor of POM Search

#### **Member:**

2017-2018: Executive Committee  
2016-2017 – 2017-2018: Endowment Committee  
2007-2008 – 2017-2018: MBA Committee  
2015-2016: Tenure and promotion Committee for on faculty at Pharmacy Administration  
2009-2010 – 2013-2014: Strategic Planning Committee  
2011-2012 – 2012-2013: Tenure and Promotion  
2007-2008: Finance Faculty Search Committee II  
2007-2008: Tenure and Promotion Committee  
2006-2007: Clinical Asst Prof of Finance Search  
2005-2006: MIS Search Committee  
2005-2006: Clinical Finance Search Committee  
2005-2006: Finance Search Committee  
2004-2005: MBA Committee

### **University Assignments**

#### **Member:**

2012-2013 – 2015-2016: Faculty Senate  
2012-2013 – 2015-2016: Buildings, Grounds, and Renovations Committee



2011-2012 – 2015-2016: Non-Resident Admissions Committee

2012-2013 – 2014-2015: Research Council

## **Service to the Profession**

### **Advisor**

2006: McGraw Hill Workshop on Trends in Operations Management, Chicago, Illinois. A 2-day symposium, March 2006, discussing issues related to trend on Operations and Supply Chain Management in US. and the world.

2005: McGraw-Hill Publishing Company, San Diego, California. A 4-day symposium, Feb. 2005, discussing issues related to trend on Operations and Supply Chain Management in US. and the world.

### **Board Member: Advisory Board**

2015: International Journal of Sensors, Wireless Communications and Control.

### **Editor: Associate Editor**

2015: International Journal of Service Sciences.

2014 – 2015: International Journal of Service Sciences.

2012: Journal of Business management (Editorial Board).

2007 – 2012: International Journal of Service Sciences.

2007: International Journal of Service Sciences. On the Editorial Board of the journal

2000 – 2002: Computers and Operations Research.

### **Editor: Guest Editor of Journal**

2007: International Journal of Service Sciences. Guest Editor for a special issue on Emergency, and Disasters Operations Management.

### **Reviewer: Ad Hoc Reviewer for a Journal**

2004: Information Processing Letters.

2004: Applied Mathematical Letters.

2004: Computers and Mathematical Modeling.

2004: Discrete Applied Mathematics.

2004: Naval Research Logistics.

2004: OMEGA.

2004: Computers and Operations Research.

2004: IIE Transactions.

2004: Journal of Heuristics.

2004: European Journal of Operations Research.

2004: Journal of Operational Research Society.

2004: Operations Research.

2004: INFORMS Journal on Computing.

2004: Management Science.

## **Service to the Community**

### **Board-Member**

2015: Mississippi Blood Services

2011 – 2012: Mississippi Blood Services

2006: Mississippi Blood Services, member of Advising Board for MBS

## **Faculty Development**

### **Research-Related Conference/Seminar**

2007: San Antonio, Texas. Several Workshops on Teaching of Supply Chain Management

### **Professional Seminars / Workshops**

2007: Memphis, Tennessee. Monthly meeting of Institute of Supply Chain Management

2007: Memphis, Tennessee. Monthly meeting of Institute of Supply Chain Management

2007: Memphis, Tennessee. Monthly meeting of Institute of Supply Chain Management

2007: Memphis, Tennessee. Monthly meeting of Institute of Supply Chain Management

2006: Memphis, Tennessee. Tools for Negotiation from Institute of Supply Chain Management

2006: San Antonio, Texas. Several Workshops on Teaching of Operations Management/Decision Sciences

2005: Denver, Colorado. Attended a workshop to learn new advancements in the field of Bioinformatics. Fourth IEEE International Workshop on High Performance Computational Biology

2005: San Francisco, California. Attended several workshops and talks on teaching of Operations Management and Management Science during INFORMS Conference.

2003: Oxford, Mississippi. Introduction to Arcview GIS

### **Technology-Related Training**

2005: Oxford, United States of America. Making Sense of DNA and Protein Sequencing

## **Other Activities**

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'Multi-Exchange (r-flip) Neighborhood Structure for Pseudo-Boolean Optimization applied to QFD,' invited presentation at South China University of Technology.

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'A Unified Modeling and Solution Framework for Combinatorial Optimization Problems,' presented at South China University of Technology.

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'Multi-Exchange (r-flip) Neighborhood Structure for Pseudo-Boolean Optimization applied to QFD,' presented at (Lingnan College) Sun Yat-Sen Technology.

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'A Unified Modeling and Solution Framework for Combinatorial Optimization Problems,' presented at (Lingnan College) Sun Yat-Sen Technology.

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'A Unified Modeling and Solution Framework for Combinatorial Optimization Problems,' presented at Chinese Academy of Sciences, Meta-synthesis group.

2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'A Unified Modeling and Solution Framework for Combinatorial Optimization Problems,' presented at Chinese Academy of Sciences, School of Management and Policy.

- 2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'A Unified Modeling and Solution Framework for Combinatorial Optimization Problems,' presented at Tsinghua University.
- 2005 - : Alidaee, B., G. Kochenberger, & H. Wang, 'Multi-Exchange (r-flip) Neighborhood Structure for Pseudo-Boolean Optimization applied to QFD,' presented at Tsinghua University.
- 2004 - : Wang, H., B. Alidaee, G. Kochenberger, F. Glover, "Solving Clique Partitioning Problems via Unconstrained Quadratic Programming', invited presentation at Army Engineering Research and Development Center (ERDC), August 16-17, Vicksburg, MS.
- 2004 - : Wang, H., B. Alidaee and G.A. Kochenberger, "A New Methodology for Clustering Genomic and Healthcare Data', MAS held Biloxi, MS on Feb 21, 2004.
- 2004 - : Wang, H., B. Alidaee, M. Lewis, K. Lewis and Bart Garner, "Maximize Business Potential Using Mathematical Programming', Mississippi IP and Technology Expo for Venture Capital Investment, September 17-18, Jackson, MS.
- 2004 - : Alidaee, B, H. Wang, G. Kochenberger, K. Lewis and M. Lewis "Multi-Exchange (r-flip) Neighborhood Structure for Pseudo-Boolean Optimization,' invited presentation at Army Engineering Research and Development Center (ERDC), August 16-17, Vicksburg, MS.
- 2004 - : Alidaee, B "Multi-Exchange (r-flip) Neighborhood Structure for Pseudo-Boolean Optimization,' Center for Hydraulic Engineering, University of Mississippi, October 2004.
- 2003 - : Alidaee, B., 'An Expanded OFD Model for Complex Planning with Application to Manpower Planning,' NPRST and University of Mississippi, held in June at the University of Mississippi.

## **Memberships**

- Production and Operations Management Society, POMS
- Institute for Supply Chain Management, ISM
- Institute For Operations Research and Management Science, INFORMS
- IEEE Computing Society, IEEE Computing
- Informatics Computing Society, ICS
- Decision Sciences Institute, DSI
- Council of Supply Chain Management Professionals, CSCMP
- American Production & Inventory Society, APICS