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# Bahram Alidaee, Ph.D.

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## **Business School Flow Endowed Position Professor of Operations Management Professor of Pharmacy Administration**

### **Academic Background**

Ph.D. The University of Texas at Arlington, 1988.

M.B.A. The University of North Texas, 1981.

B.S. The University of Tehran, 1975.

### **Academic Experience**

Professor of Operations and Supply Chain, 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 of Mathematical Sciences, West Texas A & M University (1988 - 1995), Canyon, Texas.

### **Refereed Articles**

Wang, H., & Alidaee, B. (in press, 2023). A New Hybrid-heuristic for Large-scale Combinatorial Optimization: A Case of Quadratic Assignment Problem. *Computers & Industrial Engineering*.

Wang, H., & Alidaee, B. (in press, 2023). White-glove service delivery: A quantitative analysis. *Transportation Research Part E: Logistics and Transportation Review*.

Wang, H., Wang, W., Liu, Y., & Alidaee, B. (in press, 2022). Integrating Machine Learning Algorithms with Quantum Annealing Solvers for Online Fraud Detection. *IEEE Access*.

- Wang, W., Wang, J., Wang, H., & Alidaee, B. (in press, 2022). Internal and External Analysis of Community Banks' Performance. *International Review of Financial Analysis*.
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- Alidaee, B., Li, H., Wang, H., & Womer, K. (in press, 2021). Integer Programming Formulations in Sequencing with Total Earliness and Tardiness Penalties, Arbitrary Due Dates, and No Idle Time: A Concise Review and Extension. *Omega: The International Journal of Management Science*.
- Wang, W., Wang, H., Ortiz, J., Alidaee, B., & Sun, B. (in press, 2021). The Role of Regional Economic Development on the Effectiveness of Industrial Pollution Reduction Policy in Chinese Cities. *Journal of Cleaner Production*.
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- Wang, H., & Alidaee, B. (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*, 15 (4), 1955-1963.
- Alidaee, B., & Wang, H. (2017). A Note on Heuristic Approach Based on UBQP Formulation of the Maximum Diversity Problem. *Journal of Operational Research Society*, 68, 102-110.
- Alidaee, B., Sloan, H., & Wang, H. (2017). Simple and Fast Novel Diversification Approach for the UBQP Based on Sequential Improvement Local Search. *Computers & Industrial Engineering*, 111, 164-175.
- Li, H., & Alidaee, B. (2016). Tabu Search for Solving the Black-and-White Travelling Salesman Problem. *Journal of Operational Research Society*, 67, 1061-1079.
- Alidaee, B., Wang, H., & Sloan, H. (2015). A Unified Framework for Integer Programming Formulation of Graph Matching Problems. *Journal of Advances in Management Science & Information Systems*, 1, 8-33.
- Wang, H., Huo, D., & Alidaee, B. (2014). Position Unmanned Aerial Vehicles in the Mobile Ad Hoc Network. *Journal of Intelligent and Robotic Systems*, 74, 455-464.
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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.
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- Alidaee, B., Gao, H., & Wang, H. (2010). A Note on Task Assignment Problems. *Computers & Industrial Engineering*, 59, 1015-1018.
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- Wang, H., Alidaee, B., Kochenberger, G., & Lewis, M. (2010). Solving the market split problem via branch-and-cut. *International Journal of Mathematical Modeling and Numerical Optimization*, 1 (1/2), 121-127.
- Alidaee, B., Kochenberger, G., & Wang, H. (2010). Theorems Supporting r-flip Search for Pseudo-Boolean Optimization. *International Journal of Applied Mathematics and Computation*, 1 (1), 93-109.
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- Alidaee, B., & Kochenberger, G. (2005). A Note on a Simple Dynamic Programming Approach to the Single-Sink Fixed Charge Transportation Problem. *Transportation Science Journal*, 39 (1), 140-143.
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- Alidaee, B. (1999). Three-person Minimum Spanning Tree Games. *Mathematical and Computer Modeling*, 29, 107-123.
- Alidaee, B., Glover, F., & Kochenberger, G. (1998). Adaptive Memory Search for Binary Quadratic Programs. *Management Science*, 44, 336-345.

- Sexton, R., Alidaee, B., Johnson, J., & Dorsey, R. (1998). Global Optimization for Artificial Neural Networks: A Tabu Search Application. *European Journal of Operational Research*, 106, 570-584.
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- Alidaee, B., & Gopalan, S. (1997). A Note on Two Rules for Single Machine Tardiness. *European Journal of Operational Research*, 96, 514-517.
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- Alidaee, B., & Rosa, D. (1997). Scheduling Parallel Machines to Minimize Total Weighted and Unweighted Tardiness. *Computer & Operations Research*, 24 (8), 775-788.
- Alidaee, B., & Landram, F. (1997). Computing Orthogonal Polynomials. *Computer & Operations Research*, 24 (5), 473-476.
- Alidaee, B., & Ahmadian, A. (1996). Scheduling on a Single Processor with Variable Speed. *Information Processing Letters*, 60, 189-193.
- Alidaee, B., & Kochenberger, G. (1996). A Framework for Machine Scheduling Problems with Controllable Processing Times. *Production and Operations Management*, 5 (4), 391-405.
- Alidaee, B., & Ramakrishnan, R. (1996). A Computational Experiment of AU\_COVERT Class of Rules for Single Machine Tardiness. *Computers & Industrial Engineering*, 30, 201-209.
- Alidaee, B., & Landram, F. (1996). Scheduling Jobs on a Single Machine to Minimize the Maximum Processing Times. *International Journal of Systems Science*, 27, 507-510.
- Alidaee, B., & Rosa, D. (1995). On the V-shaped property in One-machine Scheduling. *Journal of Operational Research Society*, 46, 128-132.
- Alidaee, B. (1994). Optimal Sequencing in Multi characteristics Inspection Policy. *Journal of Optimization Theory and Applications*, 83, 199-205.
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- Alidaee, B. (1994). Proof of Permutationally Convexity of MCSF Games. *ZOR Methods and Models of Operations Research*, 39, 243-248.
- Alidaee, B. (1994). Minimizing Absolute and Squared Deviation of Completion Times from Due Date. *Production and Operations Management*, 3 (2), 133-148.
- Alidaee, B., Kochenberger, G., & Ahmadian, A. (1994). 0-1 Quadratic Programming Approach for Optimum Solutions of Two Scheduling Problems. *International Journal of Systems Science*, 25, 401-408.
- 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.
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## Papers Under Review

- Wang, W., Wang, H., Alidaee, B., & Ortiz, J. (2021). "Exact and Heuristic Solutions for Multi-Echelon Supply Chain Networks Design," Initial submission to *Transportation Research Part E: Logistics and Transportation Review*.
- Alidaee, B., Wang, H., & Wang, W. (2021). "A Note on Fast Heuristic for Large-Scale QUBO Problem," Initial submission to *Optimization Letters*.
- Alidaee, B. & Wang, H. (2021). "Hyper-Heuristics for Very-Large-Scale Quadratic Assignment Problem," Initial submission to *Computers & Industrial Engineering*.
- Wang, H. & Alidaee, B. (2020). "Integer Programming Formulation on Traveling Salesman Problem with Flexible Coloring: Models and Applications in Home Healthcare Service," Initial submission to *Annals of Operations Research*.
- Wang, H. & Alidaee, B. (2020). "Exact and Heuristic Solutions for New Multi-Product Multi-Echelon Supply Chain Network Design Problem," Initial submission to *European Journal of Operational Research*.

## Book

- Alidaee, B., & Wang, H. (2021). *Marketing Analytics with Excel*.
- Wang, H., & Alidaee, B. (2021). *Machine Learning for Marketing Analytics with Excel*.
- Alidaee, B., & Altinakar, M. (Ed.). (2008). *International Journal of Service Sciences* Inderscience Publishing.

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.

Alidaee, B. (2000). Inventory Control. *Managerial and Decision Economics* (pp. 21, 307).

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Amini, M., & Alidaee, B. (1999). A Scatter Search Approach to Unconstrained Binary Quadratic Programming. In Corne, Dringo and Glover (Eds.), *New Methods in Optimization* (pp. 317-329). New York, New York: McGraw-Hill .

## **Refereed Proceedings**

### **Full Paper**

Alidaee, B., & Wang, H. (2022). Uncapacitated (Facility) Location Problem: A Hybrid Genetic-Tabu Search. *10th IFAC Conference on Manufacturing Modelling, Management and Control, June 22-24, 2022, Nantes, France, 55 (10)*, Europe: International Federation of Automatic Control (IFAC), 1619-1624.

Maecker, S., Shen, L., Alidaee, B., & Wang, H. (in press, 2019). An Efficient Data Structure for Unrelated Parallel Machine Scheduling in Distributed Manufacturing Systems. *International Conference on Optimization and Learning (OLA 2020)*.

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, June 7-9, 2018.*

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

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



- Daigle, J., Du, S., & Alidaee, B. (2009). Upper Bounding Service Capacity in Multihop Wireless SSMA-Based Ad Hoc Networks. *Ad Hoc Networks (ADHOCNETS)*.
- 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.
- Alidaee, B., Altinakar, M., & Wang, H. (2007). A Decision Support Tool for Emergency Management Planning. *International Conference on Management Innovation, 1*, 7 pages.
- 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.
- 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). A New Class of Sequencing Games. *Mountain Plain Management Association, 140-150*.
- 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*.

### **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.

## **Presentation of Refereed Papers**

### **International**

- Alidaee, B. & Huang, J. (2023). *Combining optimization and deep learning for dynamic pricing in renewable energy markets*. 4th Conference of the EURO Practitioners' Forum, Berlin, Germany.

- Wang, H., Alidaee, B., Sua, L., & Huang, J. (2023). *Disaster Relief Multi-Channel Transportation: Model and Simulation*. Production and Operations Management, Paris, France.
- Alidaee, B. & Wang, H. (2022). *Uncapacitated (Facility) Location Problem: A Hybrid Genetic-Tabu Search*. 10th IFAC Conference on Manufacturing Modelling, Management and Control, June 22-24, 2022, Nantes, France, Nantes, France.
- Alidaee, B. & Wang, H. (2019). *Hyper-Heuristics for Very-Large-Scale Quadratic Assignment Problem*. INFORMS International Conference, Cancun, Mexico.
- Kethley, B., Waller, B., & Alidaee, B. (2019). *Single Family Residential Home Appraisal Using Taguchi Loss Functions as a Tool for Identifying Comparable Properties*, 50th Annual Conference of the Decision Sciences Institute. Decision Sciences Institute Annual Meeting, New Orleans, Louisiana.
- Maecker, S., Shen, L., Alidaee, B., & Wang, H. (2019). *An Efficient Data Structure For Unrelated Parallel Machine Scheduling in Distributed Manufacturing Systems*, International Conference on Optimization and Learning. International Conference on Optimization and Learning (OLA 2020), Cadiz, Spain.
- 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.
- Ghomi, V. & Alidaee, B. (2018). *Cross-docking, Tabu-search, and 6 diversification methods*. Decision Sciences Institute Annual Meeting, Washington DC, District of Columbia.
- 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). *Applications of Binary Quadratic Programming*. INFORMS, Salt Lake City, Utah.
- 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.
- 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). *Greedy Solutions of Selection and Ordering Problems*. INFORMS, Seattle, Washington.
- Alidaee, B., Amini, M. M., & Kochenberger, G. (1998). *Application of tabu Search, Scatter Search and the Unconstrained Quadratic Binary Program*. 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*. Invited presentation at 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*. Invited presentation at 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*. Invited presentation at 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*. Invited presentation at 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: Alidaee, 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.

## **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



## **School 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**

### **Committee 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

### **Faculty Advisor:**

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

### **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

## **School 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**

### **Committee Member:**

2015-2016: Non-resident Admission Committee

2015-2016: Building, Ground and Innovation

2022- now: Library Council

2023 – Now: University T&P Appeal Committee

2021- Now: University General Education Committee

## **Dissertation Assignments**

### **Chair:**

Söhnke Maecker, “Essays in Scheduling,” WHU - Otto Beisheim School of Management, Germany, (Co-Chair, 2022)

Ghomi, Vahid, 2018, “New Diversification Methods to Solve a Quadratic Truck-door Assignment Problem in Cross-docking Terminals,” Assistant Professor, Penn Sate University-Mont Alto.

Ramalingam, Vijay, 2014, “XQX Based Modeling and Heuristics for General Integer Programming Problems,” Operations Research Engineer, Argonne National Lab, Chicago.

Gao, Hongman, 2007, Assistant Professor of POM, Jackson State University (presently a senior manager at the Central Bank of China)

Pirim, Taner, 2006, PepsiAmericas, Chicago

Sagbansua, Lutfu, 2004, Professor of Management, Firat University, Turkey, and Southern University System, Baton Rouge

Wang, Haibo, 2004, Distinguished Associate Professor of MIS, Texas A&M International University

Li, Weiqi, 1998, Professor of MIS, Michigan Technological University

Naidu, Jaideep, 1998, Professor of POM, University of Philadelphia

Kethley, Bryan, 1997, Professor of POM, Middle Tennessee State University

Hwang, Chen-Pei (James), 1996, Senior Manager, Sun Microsystems, Silicon Valley, CA.

### **Member:**

2015-2016: Shaohui Wang – Electrical Engineering

2014-2015: Chris Schwanke -- Mathematics

2004-2005: Robert Page--Mathematics

2004-2005: Bennie Waller – Business School  
2003-2004: P. Kanok--Civil Engineering  
2003-2004: Bart Garner -- Business School  
2002-2003: Duan Qiang--Engineering Science  
2002-2003: Yangil Park  
2002-2003: Tabitha James – Business School  
2001-2002: Xiaotong Li -- Business School  
1999-2000: Zachary Wong -- Business School  
1998-1999: Queen Booker -- Business School  
1996-1997: Randy Sexton -- Business School  
2019-2020: General Education Value Subcommittee  
2019-2020: General Education Committee  
2018-2019: Member of two Constellations  
2018-2019: Seyma Sehriban Tiryakioglu  
2018-2019: Faculty Achievement Award  
2017-2018: Rijina Adhikary  
2019-2020: Siddik Bozkurt -- Business School

### **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.

### **Editor: Associate Editor**

2007 – now: International Journal of Service Sciences.  
2012: Journal of Business Management (Editorial Board).  
2000 – 2002: Computers and Operations Research.

2020 – now: On the Editorial Board of Journal of Pharmaceutical Sciences and Drug Discovery  
2015 – Now: On the Editorial Board of International Journal of Sensors, Wireless Communications and Control  
2007 – Now: On the Editorial Advisory Board of International Journal of Service Sciences (IJSSci)  
2007 – Now: On the Editorial Advisory Board of Eurasian Journal of Business and Economics  
2007 – Now: On the Editorial Board of The Open Information Systems Journal  
2000 – 2002: On the Editorial Advisory Board, Computers & Operations Research  
Program Committee Member: The 10th International Workshop on Meta-Synthesis and Complex Systems (MCS 2010)

**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**

Major journals in the field of Operations and Supply Chain

**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**

**DS: Research-Related Conference/Seminar**

2007: . Several Workshops on Teaching of Supply Chain Management

**Professional Seminars / Workshops**

2007: . Monthly meeting of Institute of Supply Chain Management  
2007: . Monthly meeting of Institute of Spply Chain Management  
2007: . Monthly meeting of Institute of Supply Chain Management  
2007: . Monthly meeting of Institute of Supply Chain Management  
2006: . Several Workshops on Teaching of Operations Management/Decision Sciences  
2006: . Tools for Negotiation from Institute of Supply Chain Management  
2005: . Attended several workshops and talks on teaching of Operations Management and Management Science during INFORMS Conference.  
2005: . Attended a workshop to learn new advancements in the field of Bioinformatics. Fourth IEEE International Workshop on High Performance Computational Biology

2003: . Introduction to Arcview GIS

### **Technology-Related Training**

2005: . 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

Informatics Computing Society, ICS

Decision Sciences Institute, DSI

American Production & Inventory Society, APICS