

Dr. Mark Lewis

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Education

- Ph D, Southern Methodist University, 2000.
Major: Operations Research
Dissertation Title: Spare Capacity Planning in Telecommunications Networks: Models and Algorithms
- MS, Southern Methodist University, 1995.
Major: Operations Research
- BS, University of Kansas, 1984.
Major: Electrical Engineering

Professional Positions

Academic

- Associate Professor, Missouri Western State University. (2005 - Present).
- Assistant Professor, University of Mississippi. (2001 - 2005).

Professional

- Programmer, TelOptica. (January 2000 - May 2001).
- Project Engineer, Lockheed-Martin Tactical Aircraft Systems. (1984 - 1996).
- Avionics technician, US Air Force. (1976 - 1981).

Professional Memberships

- Institute for Operations Research and Management Science.

Recent Development Activities Attended

- Seminar, "Faculty Conference on Learning and Research," AACSB. (June 30, 2008 - July 1, 2008).
- Seminar, "AACSB International Annual Meeting," AACSB. (April 12, 2008 - April 14, 2008).
- Seminar, "AACSB Associate Dean's Conference," AACSB. (November 2007).
- Seminar, "AACSB Assessment Seminar," AACSB. (October 2007).
- Seminar, "AACSB International Annual Meeting," AACSB. (April 2007).

TEACHING

Teaching Experience

Missouri Western State University

GBA 375, Internship
GBA 481, Workplace Research
MGT 416, Production / Operations Management
MGT 418, Management Information Systems
MGT 431, Management Science

Directed Student Learning

Directed Individual/Independent Study, "Small business management," Marketing. (January 12, 2006 - May 5, 2006).

RESEARCH

Published Intellectual Contributions

Refereed Journal Articles

Lewis, M., Alidaee, B., Glover, F., Kochenberger, G. (2008). A Note on xQx as a Modeling and Solution Framework for the Linear Ordering problem. *To appear in International Journal of Operational Research*, 4(6).

Wang, H., Kochenberger, G., Lewis, M., Lewis, K., Alidaee, B. (2008). Modeling and Solving Set Packing Problems Via Unconstrained Quadratic Programming. *European Journal Of Operational Research*, 186(2), 504-512.

Kochenberger, G., Alidaee, B., Wang, H., Lewis, M., Lewis, K. (2008). A Note on Attractive Nonlinear Models for Combinatorial Optimization. *To appear in International Journal on Mathematics of Operations Research*.

Lewis, M. On the use of Guided Design Search for Discovering Significant Decision Variables in the Fixed-charge Capacitated Multicommodity Network Design Problem. *To appear in Networks*.

Lewis, M., Kochenberger, G., Alidaee, B. (2007). A New Modeling and Solution Approach for the Set Partitioning Problem. *Computers & Operations Research*, 35(3), 807-813.

Lewis, M., Lewis, K., White, B. (2006). Guided Design Search in the Interval-Bounded Sailor Assignment Problem. *Computers & Operations Research*, 33(6), 1664-1680.

Lewis, M., Kochenberger, G. (2005). Using xQx to model and solve the uncapacitated task allocation problem. *Operations Research Letters*, 33, 176-182.

Lewis, M. (2005). Guided Design Search as a Decision Support Tool in Network Design. *Academy For Information And Management Science Journal*, 8, 23-35.

Lewis, M. (2004). The Effects of Network Characteristics on Joint Capacity Optimization in Robust Telecommunications Networks. *International Journal Of Operations And Quantitative Management*, 10(3), 1-19.

Kennington, J., Lewis, M. (2001). The Path Restoration Version of the Spare Capacity Allocation Problem with Modularity Restrictions: Models, Algorithms, and an Empirical Analysis. *INFORMS Journal on Computing*, 13(3), 0181-0190.

Conference Proceedings

Lewis, M., White, B. (2008). *A Linear Ordering Approach to the Ranking and Path Analysis of Web Site Traffic*. Midwest Academy of Management Proceedings.

Presentations Given

Lewis, M., White, B. J., INFORMS Annual National Meeting, "The Page Ranking and Path Analysis of Web Site Traffic," INFORMS, Seattle, Washington. (November 2007).

Lewis, M. (Presenter & Author), White, B. J. (Author Only), Midwest Academy of Management, "A Linear Ordering Approach to Path Analysis," Academy of Management, Kansas City, MO. (October 2007).

Lewis, M., Lewis, K., White, B., INFORMS Annual National Meeting, "GDS for the Sailor Assignment Problem," INFORMS, Denver, Colorado. (November 2004).

Lewis, M., INFORMS Telecommunications National Meeting, "Using Guided Design Search in Capacitated Network Design," INFORMS, Boca Raton, Florida. (March 2004).

Awards and Honors

Outstanding Graduate Student, Southern Methodist University Computer Science Engineering School. (March 2000).

SERVICE

Department Service

Committee Chair, AACSB Oversight Committee. (August 2007 - Present).

Committee Member, Statistics Search Committee. (January 2007 - 2008).

Facilitator, Strategic Planning. (August 22, 2008).

Committee Member, Summer Research Proposal Review. (February 2007 - April 2007).

College Service

Attendee, Meeting, Honors Convocation. (April 7, 2008).

University Service

Attendee, Meeting, Faculty Plan Days. (August 21, 2008).

Committee Member, Undergraduate Curriculum Committee. (August 2006 - December 2007).

Committee Member, Committee to Revise UGCC procedures. (January 2007 - May 2007).

Professional Service

Reviewer, Textbook. (July 28, 2008 - August 4, 2008).

Reviewer, Journal Article, INFORMS Journal on Computing. (2007).

Reviewer, Journal Article, Information Sciences. (2006).

Reviewer, Journal Article, International Journal of Operations & Quantitative Management.
(2005).

Public Service

Participant in "Belt Bowl", Big Brothers of Saint Joe, Saint Joseph, Missouri. (July 12, 2008).

Attendee, Meeting, Chamber of Commerce, Saint Joseph, MO. (March 20, 2008).