

Todd Easton, Ph.D.

todd.easton@umail.com

Professor (Lecturer)
Mechanical Engineering
University of Utah

Employment, Positions and Titles

Professor (Lecturer) University of Utah 2021- present
University Distinguished Teaching Scholar, Kansas State University, 2017 – 2021
Ike and Letty Evans Cornerstone Teaching Scholar, 2017 – 2021
Director of Graduate Operations Research Program 2009 – 2021
Associate Professor, IMSE, Kansas State University, 2007 – 2021
Assistant Professor, IMSE, Kansas State University, 2001 – 2007
Instructor, ISyE, Georgia Institute of Technology, Summer 2001 and Summer 2000
Athletic Mathematical Coordinator, Georgia Institute of Technology, 1999 – 2001
Teaching Assistant, ISyE, Georgia Institute of Technology, 1994 – 1999

Education

Georgia Institute of Technology, Industrial and Systems Engineering, Postdoc, 1999-2001
Georgia Institute of Technology, Industrial and Systems Engineering, Ph.D., 1999
Stanford University, Operations Research, M.S., 1994
Brigham Young University, Mathematics, B.S., 1993

Research Journal Publications (30)

Vitor, F., & **Easton, T.** (2022). Projected orthogonal vectors in two-dimensional search interior point algorithms for linear programming. *Computational Optimization and Applications*, 83(1), 211-246.

Bailey J., **T. Easton**, and F. Vitor (2022). Octanary polyhedral branch and bound for integer programs. *International Journal of Operational Research*. 43(4). 451-478.

Vitor, Fabio and **Easton, T.** (2021). Approximate and Exact Merging of Knapsack Constraints with Cover Inequalities. *Optimization*. 70. 437-460.

Easton, T., & Newell, S. (2019). Are daily fantasy sports gambling?. *Journal of Sports Analytics*, 5(1), 35-43.

Vitor, F., & **Easton, T.** (2018). The double pivot simplex method. *Mathematical Methods of Operations Research*, 87(1), 109-137.

Easton, T., & Becker, K. (2017). Optimizing baseball defensive alignments through integer programming and simulation. *International Journal of Modelling and Simulation*, 37(2), 82-87.

Hickman, R., & **Easton, T.** (2015). On merging cover inequalities for multiple knapsack problems. *Open Journal of Optimization*, 4(04), 141.

Muggy, L., & **Easton, T.** (2015). Generating class schedules within a complex modular environment with application to secondary schools. *Journal of Scheduling*, 18(4), 369-376.

Easton, T., Carlyle, K., & Scoglio, C. (2015). Optimizing quarantine regions through ellipsoidal geographic networks. *Computers & Industrial Engineering*, 80, 145-153.

Hickman, R., & **Easton, T.** (2015). Merging valid inequalities over the multiple knapsack polyhedron. *International Journal of Operational Research*, 24(2), 214-227.

T. Easton and T. Gutierrez (2015). Sequential lifting of general integer variables” *Journal of Industrial Engineering and Management* 4(2) 158, 1-7.

Easton, T., & Lee, J. (2012). Quaternary hyperplane branching with internally generated cutting planes for solving integer programmes. *International Journal of Operational Research*, 14(3), 366-385.

Hopkins, M. D., Pahwa, A., & **Easton, T.** (2012). Intelligent dispatch for distributed renewable resources. *IEEE Transactions on Smart Grid*, 3(2), 1047-1054.

Easton, T., Carlyle, K., Anderson, J., & James, M. (2011). Simulating the spread of an epidemic in a small rural Kansas town. *International Journal of Artificial Life Research (IJALR)*, 2(2), 95-104.

Scoglio, C., Schumm, W., Schumm, P., **Easton, T.,** Chowdhury, S. R., Sydney, A., & Youssef, M. (2010). Efficient mitigation strategies for epidemics in rural regions. *PLoS One*, 5(7), e11569.

Ben-Arieh, D., **Easton, T., & Choubey, A. M.** (2009). Solving the multiple platforms configuration problem. *International journal of production research*, 47(7), 1969-1988.

Ben-Arieh, D., **Easton, T., & Evans, B.** (2008). Minimum cost consensus with quadratic cost functions. *IEEE Transactions on Systems, Man, and Cybernetics-Part A: Systems and Humans*, 39(1), 210-217.

Easton, T., & Singireddy, A. (2008). A large neighborhood search heuristic for the longest common subsequence problem. *Journal of Heuristics*, 14(3), 271-283.

Easton, T., & Hooker, K. (2008). Simultaneously lifting sets of binary variables into cover

inequalities for knapsack polytopes. *Discrete Optimization*, 5(2), 254-261.

Ben-Arieh, D., & **Easton, T.** (2007). Multi-criteria group consensus under linear cost opinion elasticity. *Decision support systems*, 43(3), 713-721.

Easton, T., & Singireddy, A. (2006). A specialized branching and fathoming technique for the longest common subsequence problem.

Hooker, K., & **Easton, T.** (2006). Using hyperstars to create facial-defining inequalities of general binary integer programs. *vertex*, 10(7), 0-1.

Lee, E. K., **Easton, T.**, & Gupta, K. (2006). Novel evolutionary models and applications to sequence alignment problems. *Annals of Operations Research*, 148(1), 167-187.

Easton, T., Hooker, K., & Lee, E. K. (2003). Facets of the independent set polytope. *Mathematical programming*, 98(1-3), 177-199.

Horton, S. B., **Easton, T.**, & Parker, R. G. (2003). The linear arrangement problem on recursively constructed graphs. *Networks: An International Journal*, 42(3), 165-168.

Easton, T., & Parker, R. G. (2002). On critical spanning trees and the linear-arrangement problem. *IEEE Transactions on Circuits and Systems I: Fundamental Theory and Applications*, 49(12), 1839-1843.

Easton, T., & Parker, R. G. (2001). On completing latin squares. *Discrete Applied Mathematics*, 113(2-3), 167-181.

Horton, S. B., **Easton, T.**, & Parker, R. G. (2000). On the complexity of certain completion problems. *Congressus Numerantium*, 9-32.

Easton, T., Horton, S., & Parker, R. G. (1996). A solvable case of the optimal linear arrangement problem on Halin graphs. *Congressus Numerantium*, 3-18.

Refereed Book Chapters (3)

Kayarat, D., & **Easton, T.** (2019). Improving responsiveness in manufacturing centers through the virtual-to-reality big data methodology. *Emerging Frontiers in Industrial and Systems Engineering: Success Through Collaboration*, 289.

Ben-Arieh, D., & **Easton, T.** (2011). Product design compromise using consensus models. In *Consensual Processes* (pp. 405-423). Springer, Berlin, Heidelberg.

Huschka, K., English, J. R., **Easton, T.**, & Huschka, A. (2010). Monitoring inventory

accuracy with statistical process control.

Refereed Conference Proceedings (19)

T. Easton. Online versus in person student learning outcomes. *Proceedings of ASEE Zone III Conference Gulf Southwest – Midwest – North Midwest Sections*) September 2021.

T. Easton. The impact of free lunch on attendance at voluntary teacher training. *American Society for Engineering Education. ASEE 2018 Annual Conference Proceedings*, June, 2018, Salt Lake City, Utah. 1-8

Vitor, F. and **Easton, T.** A two dimensional search primal affine scaling interior point algorithm for linear programs. *ISERC 2018 Annual Conference Proceedings*, May, 2018, 1-8

Verschelden, L., Stamm, J. L. H., & **Easton, T.** (2017, December). Integrated optimization and simulation models for the locomotive refueling system configuration problem. In *2017 Winter Simulation Conference (WSC)* (pp. 3382-3393). IEEE.

Easton T., 2017 Zone III Best Paper: Implementing lecture-based tutoring to improve student learning. 2017 ASEE Annual Conference & Exposition, June 2017, Columbus, Ohio 1-10.

Newell, S and **T. Easton.** Optimizing tiered daily fantasy sports-Mathematically modeling DraftKings® Millionaire Maker Tournament. In: K. Coperich, E. Cudney, H. Nembhard (eds) *Proceedings of the 2017 Industrial and Systems Engineering Research Conference*, 1-6.

Talamantes, A and **T. Easton.** Lifted equality cuts for the multiple knapsack equality problem. In: K. Coperich, E. Cudney, H. Nembhard (eds) *Proceedings of the 2017 Industrial and Systems Engineering Research Conference*, 1-6.

T. Easton. Implementing lecture based tutoring to improve student learning. *Proceedings of ASEE Zone III Conference Gulf Southwest – Midwest – North Midwest Sections*) September 2016, Manhattan, KS 1-9. (**Awarded Best Paper**)

Vitor, F. and **T. Easton.** Merged knapsack cover inequalities for the multiple knapsack problem. In: Yang H, Kong Z, Sarder M (eds) *Proceedings of the 2016 Industrial and Systems Engineering Research Conference*, Institute of Industrial and Systems Engineers, 1-6.

T. Easton. Improving student ratings through lecture based tutoring. *Proceedings of ASEE Zone III Conference Gulf Southwest – Midwest – North Midwest Sections*) September 2015, Springfield, MO, USA, 2015, 1-8.

Ben-Arieh, D., **T. Easton** and A.M. Choubey. Solving the multiple platforms configuration

problem. *19th International Conference on Production Research* 47.7 (2009)

Kramer, B. and **T. Easton**. Concurrent B.S./M.S. programs: A method to increase graduate enrollments and attract top students to graduate study. *114th Annual ASEE Conference and Exposition*, 2007; Honolulu, HI; United States; 24 June 2007 through 27 June 2007, 1-8.

Schumm, P., C. Scoglio, **T. Easton**, D. Gruenbacher. Epidemic spreading on weighted contact networks. *Proceedings of IEEE/ACM Bionetics* 2007, Budapest, Hungary, Dec. 2007

Youssef, M., C. Scoglio, and **T. Easton**. Optimal topology design for overlay networks. *Proceedings of IFIP Networking* 2007, Atlanta, USA, 2007.

Easton, T. and D. Cassone. Vague-Goal Oriented Projects-A Tool To Motivate Students. *Proceedings of Industrial Engineering Research Conference*, May 21-23 2006, Orlando, FL.

T. Easton and P. Surve. Trees and the Linear Arrangement Problem. *Proceedings of Industrial Engineering Research Conference*, May 21-23 2006, Orlando, FL.

T. Easton and K. Chinn. Weighted Matchings and the Vehicle Routing Problem. *Proceedings of Industrial Engineering Research Conference*, May 21-23 2006, Orlando, FL.

B. Evans, D. Ben-Arieh and **T. Easton**. Minimum Cost Consensus with Quadratic Cost Functions. *Proceedings of Industrial Engineering Research Conference*, May 21-23 2006, Orlando, FL.

Cassone, D. and **T. Easton**. Increasing Student Learning Through Vague-Quality Projects. CD-ROM *Proceedings of the 38th ASEE Midwest Section Conference and Workshops*, Rolla, MO, September 10-12 2003, pp. 1-10.

Books (1)

T. Easton, 2009 *The When Diet: Mathematically Optimizing Eating and Exercise for Weight Loss*, Ithaca Press, Ithaca, NY 2009 ISBN 978-0-9815116-5-8.

Magazine Articles (1)

T. Easton. Dieting as an O.R. problem: How to minimize misery while maximizing weight loss. *OR/MS Today*, V 36 N 6, December 2009 34-36.

Funded Research Projects (Total: \$420,000 My Portion: \$380,000)

“Renewable Energy & Advanced Lighting Systems for Exterior Applications”, subcontract PI

Todd Easton \$79,999 funded by the California Energy Commission June 2021- May 2025

“Optimizing HVAC for Carbon, Cost and Comfort”, PI Todd Easton funded by the University of Utah’s Seed2Soil program \$39,528 Sept. 2021- Dec 2024

“Applying the Polyhedral Clustering Algorithm in an Autonomous Machine Learning Environment for Cybersecurity” PI **T. Easton** funded by U.S. Army Cyber Institute, \$27,449, Aug. 1 2019-July 31, 2020.

“Implementing Polyhedral Clustering in an Autonomous Machine Learning Environment for Cybersecurity,” PI **T. Easton** funded by U.S. Army Cyber Institute, \$26,779, Aug. 1 2018-July 31, 2019.

“Optimizing Stone Manufacturing for US Stone” PI **T. Easton** funded by US Stone Industries, \$3,750 August 26, 2013 - May 31, 2014

“Optimizing Renewable Energy Generation” PI **T. Easton** funded by The Navajo Nation Oil and Gas Company, \$45,000 January 1 2013 - December 31 2013.

“Optimizing Crane Usage at Spirit AeroSystems” PI **T. Easton**, funded by Spirit Aerosystems \$30,000 November 2011 - December 2012.

“Developing a Scheduling Software Package for Digestive Health Specialists” PI: **T. Easton**, funded by Digestive Health Specialists, \$3,000 March 2011 - August 2011

“Developing a scheduling software for Westside Highschool” PI **T. Easton** funded by Westside Highschool \$18,000, March 2010 - May 2011.

“SGER: Exploratory research on complex network approach to epidemic spreading in rural regions” PI: C. Scoglio Co-PI: **T. Easton** and W. Schumm funded by NSF SES-084112 \$50,001, September 2008 – August 2009. Portion \$13,500

“Optimizing project planning at Sprint” PI: Ben-Arieh CoPI: **T. Easton** and Wu \$10,000, funded by Sprint: August 2007- October 2007. Portion \$3,000

“Solving integer programs by generating hyperclique cuts” **PI: T. Easton**, funded by KTEC and is a NSF ESPCoR First Award \$49,829, June 2002 – August 2003.

Funded Educational Projects (Total: \$473,888 My Portion: \$462,329)

“Removing Two Textbooks from Introduction to Industrial Engineering” PI: T. Easton, funded by the Student Government Association at Kansas State University \$5,500 June – August 2013.

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense,

\$47,054 January 2013-May 2013

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$49,263 August 2012- December 2012

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$39,424 June 2012- August 2012.

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$48,202 January 2012-May 2012

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$36,537 August 2011- December 2011

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$25,167 June 2011- August 2011

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$46,401 January 2011-May 2011

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$44,801 August 2010- December 2010

“Starting a Distance MSOR Degree at K-State” PI: **T. Easton**, funded by The Division of Continuing Education at Kansas State University, \$21,644 August 2009 - December 2010.

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$23,986 June 2010- August 2010

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$45,985 January 2010-May 2011

“Part-Time M.S.O.R. Program” PI: **T. Easton**, funded by the U.S. Department of Defense, \$31,816 August 2009- December 2009

“Improving IMSE Ability to Recruit Females and Minorities,” **PI: T. Easton** and Malgorzata Rys, funded as an NSF departmental Advance Award, \$8,500 January 2006 - December 2006.

Honors and Awards

American Society for Engineering Education

American Society of Engineering Education’s Midwest Section Outstanding Teaching Award
2018

Awarded Best Paper at ASEE Zone III Meeting September 2016

Kansas State University

Dr. Ron and Rae Iman Outstanding Faculty Award for Teaching 2018-2019

Coffman Chair for University Distinguished Teaching Scholars 2017-2018

Commerce Bank Outstanding Undergraduate Teaching Award 2014

Kansas State University College of Engineering

Myers-Alford Memorial Teaching Award 2020

Bob and Lila Snell Distinguished Career Award for Excellence in Undergraduate Teaching 2019

Bob and Lila Snell Distinguished Career Award for Excellence in Undergraduate Teaching 2019

Dean's Award of Excellence in Teaching 2013-2014

James L. Hollis Memorial Award for Excellence in Undergraduate Teaching 2008-2009

Clair A. Mauch Steel Ring Advisor of the Year 2008-2009

Department of Industrial and Manufacturing Systems Engineering

The IMSE Department Outstanding Teacher of the Year 2005, 2006, 2007, 2008, 2009, 2011, 2013 and 2016.

Awards from various organizations with no honorarium (7 Awards)

Kansas State University's WESP Making a Difference Award 2008.

The Engineering Student Council of the Kansas State University College of Engineering Outstanding Leadership Award 2004, 2005, 2007, 2008 and 2009.

The Mortar Board Senior Honor Society Outstanding Instructor/Advisor for the College of Engineering 2003.

Distinct Semester Long Courses Instructed (21)

At the University of Utah, the average excellence of the teacher is 5.5/6.

ME EN 5170/6170 Systems Engineering and Integration
ME EN 5183/6183 Discrete Event Systems Simulation
ME EN 5184/6184 Operations Research for Systems
ME EN 5185/6185 Analytics for Systems Management
ME EN 5186/6186 Engineering Economic Analysis

My 10 year average Excellence of Teacher is 4.8/5 as rated by the students using the IDEA Form Survey at Kansas State University.

IMSE 201 Introduction to Industrial Engineering
IMSE 441 Introduction to Analytics (as IMSE 602)
IMSE 560 Operations Research 1
IMSE 591 Senior Design 1
IMSE 592 Senior Design 2
ISYE 320 Engineering Economic Systems (University of San Diego)
IMSE 602 Computer Programming for Industrial Engineers
IMSE 643 Industrial Simulation
IMSE 660 Operations Research 2
IMSE 680 Quantitative Problem Solving
IMSE 751 Normative Decision and Games
IMSE 780 Methods of Operations Research
IMSE 802 Scheduling Theory
IMSE 822 Advanced Engineering Economy
IMSE 881 Linear Programming
IMSE 882 Network Flow and Graph Theory
IMSE 884 Integer Programming
IMSE 888 Research Methods in Industrial Engineering
IMSE 982 Nonlinear Programming
IMSE 991 Multicriteria Decision Making

Graduate Research Students Advised (with Thesis or Dissertation Title)

Ph.D. Dissertations Advised (3)

Vitor, Fabio, *Two Dimensional Search Algorithms for Linear Programs*, August 2019

Hickman, Randal, *Generating Cutting Planes through Inequality Merging for Integer Programming Problems*, May 2014.

Hooker, Kevin, *Hypergraphs and Integer Programming Polytopes*, May 2005.

Master's Thesis Advised (37)

Jackson, Cori, *CHEAPER: A novel, mixed integer, linear program to minimize commercial building electricity costs under real-time conditions*, August 2021

Phillippe, Brett, *Clustering through Simulated Annealing using Measurements of Extremity-The SAME Heuristic*, May 2019

Verschelden, Lucas, *Integrated Optimization and Simulation Models for the Locomotive Refueling System Configuration Problem*, December 2017

Newell, Sarah, *Optimizing Daily Fantasy Sports Contests through Stochastic Integer Programming*, May 2017

Talamantes, Alonso *Lifted Equality Cuts for the Multiple Knapsack Equality Problem*, May 2017

Bolton, Tom, *Generating Cutting Planes Through Inequality Merging on Multiple Variables in Knapsack Problems*, May 2015

Kubik, Krista, *Fútbol Strategies Applied to Optimize Combinatorial Problems to Create Efficient Results – The Soccer Heuristic*, May 2015

Vitor, Fabio, *Improving Integer Programs' Solution Time by Merging Knapsack Constraints with Cover Inequalities*, May 2015

Delissa, Levi, *The Existence and Usefulness of Equality Cuts in the Multi-Demand Multidimensional Knapsack Problem*, May 2014

Whittle, Scott, *The NFL True Fan Problem*, May 2014

Strieby, James, *The BCS Algorithm: Optimizing Crane Schedules on Multiple Bays in Conjunction with Continuous Time Simulation*, December 2012.

Bailey, James *Octanary Branching Algorithm*, May 2012.

Morrison, Thomas *Synchronized Simultaneous Approximate Lifting for the Multiple Knapsack Polytope*, May 2012.

James, Matthew, *Utilizing Agent Based Simulation and Game Theory Techniques to Optimize an Individual's Survival Decisions during an Epidemic*, May 2012.

Irvine, Chelsea, *Suns: A new class of Facet Defining Structures for the Node Packing Polyhedron*, May 2012.

Pavelka, Jeff, *Sequential and Simultaneous Lifting in the Node Packing Polyhedron*, May 2011.

Beier, Carrie, *Exact Synchronized Simultaneous Uplifting over Arbitrary Initial Inequalities for the Knapsack Polytope*, May 2011.

Muggy, Luke *The SMART Scheduler: A Revolutionary Scheduling System for Secondary Schools*, May 2011.

Harris, Andrew, *Generating an Original Cutting-plane Algorithm in Three Sets (GO CATS)*, Dec 2010.

Lee, Jin, *Theoretically and Computationally Improving Branch and Bound through Multivariate Branching with Internal Cutting Planes*, May, 2010.

Becker, Kyle, *Optimizing Defensive Alignments in Baseball Through Integer Programming and Simulation*, December 2009.

Bolton, Jennifer, *Synchronized Simultaneous Lifting in Binary Knapsack Polyhedra*, December 2009.

Conley, Clark, *Cliqued Holes and other Graphic Structures for the Node Packing Polytope*, December 2009.

Pawha, Samir, *The Theory of Simultaneous Lifting: Constellations in Conflict Hypergraphs*, December 2009.

Anderson, Joe, *Simulating Epidemics in Rural Areas and Optimizing Preplanned Quarantine Areas Using a Clustering Heuristic*, May 2009.

Carlyle, Kyle, *Optimizing Quarantine Regions Through Graph Theory and Simulation*, May 2009.

Kubik, Lauren, *Simultaneously Lifting Multiple Sets in Binary Knapsack Integer Programs*, May 2009.

Sharma, Kamana, *Simultaneously Lifting Sets of Variables in Binary Knapsack Problems*, Dec. 2007.

McAdoo, Michael, *Three Set Inequalities in Integer Programming*, Dec. 2007

Gutierrez, Talia, *Lifting General Integer Variables*, May 2007

Huschka, Bryce, *Finding Adjacent Facet-Defining Inequalities*, May 2007

Parker, Brent, *Project Allocation and Anticover Inequalities*, May 2007

Shrauner, Justin, *Greedy is not Feasible for the Traveling Tournament Problem*, May 2007

Kayarat, Dheeraj, *The Quadratic Polyhedral Clustering Algorithm – A New Method To Cluster Microarray Data*, August 2005.

Chinn, Keith, *Implementation of the Cluster Matching Heuristic to Solve Large Capacitated Vehicle Routing Problems with Time Windows*, August 2004.

Singireddy, Abhilash, *Solving the Longest Common Subsequence Problem in Bioinformatics*, December 2003.

Surve, Pramod, *A Spanning Tree Heuristic for the Optimal Labeling Problem*, December 2003.

Academic Conference Presentations (30)

T. Easton. Online versus in person student learning outcomes. *ASEE Zone III Conference Gulf Southwest – Midwest – North Midwest Sections*, September 2021.

Easton T., 2018 “What is lecture based tutoring.” American Society of Engineering Education Zone 3 Annual Conference, September 2018.

Easton, T. “The impact of free lunch on attendance at voluntary teacher training” American Society for Engineering Education Annual Conference, June 2018.

Vitor, F. and **T. Easton** “A two dimensional search primal affine scaling interior point algorithm for linear programs.” Industrial and Systems Engineering Research Conference, May 2018.

Verschelden, L, J Heier Stamm, and **T. Easton** “Integrated Optimization and Simulation Models for the Locomotive Refueling System Configuration Problem” Winter Simulation Conference Dec. 2017.

Newell, S and **T. Easton** “Optimizing Tiered Daily Fantasy Sports-Mathematically Modeling DraftKings® Millionaire Maker Tournament.” Industrial and Systems Engineering Research Conference, May 2017.

Talamantes, A and **T. Easton** “Lifted Equality Cuts for the Multiple Knapsack Equality Problem.” Industrial and Systems Engineering Research Conference, May 2017.

T. Easton “Implementing Lecture Based Tutoring to Improve Student Learning.” ASEE Zone 3 Annual Conference, June 2017

Vitor, F. and **T. Easton** “The Double Pivot Simplex Method” INFORMS Annual Meeting, Nov. 2016.

T. Easton "Implementing Lecture Based Tutoring to Improve Student Learning." ASEE Zone III Conference, Sept 2016.

Vitor, F. and **T. Easton** "Merged Knapsack Cover Inequalities for the Multiple Knapsack Problem." Industrial and Systems Engineering Research Conference, May 2016

T. Easton. "Improving Student Ratings Through Lecture Based Tutoring." ASEE Zone III Conference, Sept 2015

R. Hickman and **T. Easton** "Merging Cover Inequalities in the Multiple Knapsack Polytope," INFORMS Annual Meeting (2014).

T. Easton and Levi Delissa "Equality cuts and the multiple demand multiple knapsack polytope," INFORMS Annual Meeting (2014).

T. Easton and J. Pavelka "Simultaneous Lifting Graphic Structures in the Node Packing Polyhedron," INFORMS Annual Meeting (2012).

T. Easton "Mathematically Optimizing Eating and Exercise for Weight Loss," INFORMS Annual Meeting (2009).

T. Easton and L. Kubik, "Simultaneously Lifting Multiple Sets in the Knapsack Polytope," INFORMS Annual Meeting (2009).

T. Easton and K. Sharma, "Maximal Simultaneously Lifted Cover Inequalities" INFORMS Annual Meeting (2008).

Kramer B. and **T. Easton**, "Concurrent B.S./M.S. Programs: A Method to Increase Graduate Enrollments and Attract Top Students to Graduate Study," ASEE's Annual Meeting (2007).

T. Easton and T. Guiterrez, "Lifting General Integer Variables" INFORMS Annual Meeting (2006).

T. Easton and P. Surve, "Trees and the Linear Arrangement Problem," IERC Conference (2006).

T. Easton and K. Chinn, "Weighted Matchings and the Vehicle Routing Problem," IERC Conference (2006).

B. Evans, D. Ben-Arieh and **T. Easton**, "Minimum Cost Consensus with Quadratic Cost Functions," IERC Conference 2006.

T. Easton and D. Cassone, "Vague-Goal Oriented Projects-A Tool To Motivate Students," IERC Conference (2006).

T. Easton and A. Singireddy, “Using Strong Branching in the Multiple Sequence Alignment Problem,” INFORMS Annual Meeting (2004)

T. Easton, E. K. Lee and K. Hooker, “Facets of the Multiple Knapsack Polytope Generated from Hypergraphs,” INFORMS Annual Meeting (2003)

K. Hooker and **T. Easton**, “On Solving Large Multiple Knapsack Instances,” INFORMS Annual Meeting (2003)

T. Easton and A. Singireddy, “Solving Large Instances of the Longest Common Subsequence Problem,” INFORMS Annual Meeting (2003)

D. Cassone and **T. Easton**, “Increasing Student Learning Through Vague-Quality Projects,” *38th ASEE Midwest Section* (2003).

T. Easton, E. K. Lee and Kevin Hooker, “Facets of the Generalized Set Covering Polytope Generated from Hypergraphs,” INFORMS Annual Meeting (2002)

Professional Associations and Positions and Memberships

Editor for *Open Journal of Modelling and Simulation* published by Scientific Research (2013-current)

Guest Co-Editor with Caterina Scoglio for a special issue on disease modeling for *International Journal of Artificial Life Research*, 2 (2) 2011.

Guest Editor for a Special Issue on Integer Programming for *The International Journal of Operations Research*, V 4, N 3, 2007.

Session Chair INFORMS 2003, 2004, 2006, 2008, 2009 and 2014.

Session Chair IERC 2006.

Alpha Pi Mu Honor Society Faculty Advisor (2008 - Present).

Member of INFORMS, ASEE and Alpha Pi Mu

Kansas State University Service

Kansas State Faculty Senator (2009-2015, 2017-present)

Co-Chair Academic Affairs Committee (2018-present)

A member of Faculty Senate Leadership (2018-present)

A member of Faculty Affairs for Faculty Senate (2013-2015)

A member of Academic Affairs for Faculty Senate (2009-2013, 2017-present)

Kansas State Graduate Faculty Senator (2006-2009)

A member of Graduate Academic Affairs (2006-2009)

The Chair of Graduate Academic Affairs (2008-2009)

A member of the Applied Mathematics Certificate Committee (2011-present)

College of Engineering Service

A member of Math Liaison Committee (2009-current)

A member of Diversity Committee (2005-2016)

A member of Engineering Honors and Awards Committee (2001-2003)

The Chair of Engineering Honors and Awards Committee (2002-2003)

A member of Engineering Engineering Research Excellence Award Committee (2002-2004)

The Chair of Engineering Engineering Research Excellence Award Committee (2003 and 2004)

IMSE Service

A member of IMSE's Undergraduate Committee (2012-current)

A member of IMSE's Graduate Committee (2001-2012)

Advisor to Alpha Pi Mu Honor Society (2010-present)

Advisor to Open House (2006 and 2008) (IMSE placed first in the college competition).