

CURRICULUM VITAE

Lewis Ntaimo

Associate Professor, Marilyn and L. David Black Faculty Fellow

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EDUCATION

Ph.D. Systems and Industrial Engineering, University of Arizona, Tucson, AZ, USA, 2004.

Minor: Electrical and Computer Engineering. *Dissertation:* “Decomposition Algorithms for Stochastic Combinatorial Optimization: Computational Experiments and Extensions.”

M.S. Mining and Geological Engineering, University of Arizona, Tucson, AZ, USA, 2000. *Thesis:* “Online Estimation of Bucket Fullness for a Wheel Loader for Autonomous Rock Excavation Using Artificial Neural Networks.”

B.S. Mining Engineering, University of Arizona, Tucson, USA, 1998.

PROFESSIONAL CERTIFICATION

Engineer-In-Training (E.I.T) Certification, No. 07760, State of Arizona, June 1999.

EMPLOYMENT

2010 – Present: *Associate Professor* (with tenure), Industrial and Systems Engineering, Texas A&M University (TAMU), College Station, USA.

June 1 – August 31, 2015: *Associate Professor at Texas A&M University at Qatar (TAMU-Q)*, Department of Mechanical Engineering, TAMU-Q - Doha, Qatar.

June 1 – August 31, 2013: *Associate Professor at Texas A&M University at Qatar (TAMU-Q)*, Department of Mechanical Engineering, TAMU-Q - Doha, Qatar.

January 2012 – June 2012: *Visiting Professor*, Computer Science, Systems and Communication, University of Milan - Bicocca, Italy.

2004 – 2010: *Assistant Professor*, Industrial and Systems Engineering, Texas A&M University, College Station, USA.

PROFESSIONAL SOCIETIES

Institute for Operations Research and the Management Sciences (INFORMS)

Institute of Industrial and Systems Engineers (IISE)

International Council on Systems Engineering (INCOSE)

Society for Modeling and Simulation International (SCS)

International Federation of for Operations Societies (IFORS)

Omega Rho

HONORS AND AWARDS

2016 *Best Publication Award in Natural Resources, INFORMS Section on Energy, Natural Resources, and the Environment*

- Publication: Gallego, J.A., **L. Ntaimo** and C. Stripling, “Wildfire Initial Response Planning Using Probabilistically Constrained Stochastic Integer Programming,” *International Journal of Wildland Fire*, Vol. 23, pp. 825-838, 2014.

2016 *Second Place Minority Issues Forum Paper Competition, INFORMS Minority Issues Forum*

- Publication: Cotton, T. and **L. Ntaimo**. “Computational Study of Mean-Risk Stochastic Linear Programs,” *Mathematical Programming Computation*, Vol. 7, pp. 471-499, 2015.

2016 *Marilyn and L. David Black Faculty Fellow in Industrial and Systems Engineering*, Texas A&M University.

2015 *INFORMS Computing Society (ICS) Prize*. Awarded to Suvrajeet Sen, Dinakar Gade, Julia Hige, Simge Küçükyavuz, **Lewis Ntaimo**, and Hanif Sherali for their seminal work on stochastic mixed integer programming, published in:

- Sen, S., J.L. Hige, “The C3 Theorem and a D2 Algorithm for Large Scale Stochastic Mixed-Integer Programming: Set Convexification,” *Mathematical Programming*, Vol. 104, pp. 1-20, 2005.
- Sen, S., H.D. Sherali, “Decomposition with Branch-and-Cut Approaches for Two-Stage Stochastic Mixed-Integer Programming,” *Mathematical Programming*, Vol. 106, pp. 203-223, 2006.
- **Ntaimo**, L., S. Sen, “The Million Variable 'March' for Stochastic Combinatorial Optimization,” *Journal of Global Optimization*, Vol. 32, pp. 385-400, 2005.
- **Ntaimo**, L., S. Sen, “A Comparative Study of Decomposition Algorithms for Stochastic Combinatorial Optimization,” *Computational Optimization and Applications*, Vol. 40, pp. 299-319, 2008.
- Gade, D., S. Küçükyavuz, S. Sen, “Decomposition Algorithms with Parametric Gomory Cuts for Two-Stage Stochastic Integer Programs,” *Mathematical Programming*, Vol. 144, pp. 39-64, 2012.

2014 *Top 5 Papers Published in Journal of Global Optimization in 2013*: **Ntaimo**, L., “Fenchel decomposition for stochastic mixed-integer programming,” Vol. 55, pages 141-163, 2013.

2010 *George Armistead, Jr. '23 Faculty Fellow*, Texas A&M University.

2010 *Donna and Jim Furber '64 Faculty Fellowship*, Industrial and Systems Engineering, Texas A&M University.

2007 *Outstanding Professor Award*, Alpha Pi Mu Student Chapter Society, Industrial and Systems Engineering, Texas A&M University.

DEPARTMENTAL AND COLLEGE SERVICE

Member: Department Head Search Committee, 2016–2017.

Member: Faculty Search Committee, 2016–2017.

Member: College of Engineering, Master of Systems Engineering Ad hoc Committee, 2014–2015.

Member: ISEN Promotion and Tenure Committee, 2013–2014, 2015–2016, 2016–2017.

Member: College of Engineering, Faculty Honors & Awards Committee, 2012–2014.

Chair: ISEN Graduate Committee, 2012–2014.

Member: ISEN Undergraduate Committee, 2015–2016.

Member: ISEN Ad hoc Committee on Qualifying Exam, 2015–2016.

Chair: Faculty Search Committee, 2013.

Member: ISEN Faculty Search Committee, 2012–2013.

Chair: ISEN Faculty-Student Interaction Committee, 2010–2011.

EDITORIAL BOARD

Associate Editor, INFORMS Journal on Computing, 2017–present.

Associate Editor, IIE Transactions on Health Systems Engineering, 2017–present.

Editorial Board Member, Journal of Global Optimization, 2013–present.

Technical Committee Member, DEVS Spring Simulation Multiconference, 2006 - present.

OTHER POSITIONS

Vice President/President Elect: INFORMS Minority Issues Forum, 2015–2017.

Officer: Omega Rho, International Honor Society for Operations Research and Management Science - The Honor Society of INFORMS, 2015–present.

Secretary: INFORMS Minority Issues Forum, 2013–2015.

Vice Chair: Stochastic Programming, INFORMS Optimization Society, 2008–2010.

Research Advisor for Operations Research: Arizona Center for Integrated Manufacturing and Simulation (ACIMS), University of Arizona, Arizona State University, USA, 2005–present.

Faculty Advisor: Institute of Industrial Engineers (IIE) Student Chapter, TAMU, 2005 - 2008.

Session Chair: INFORMS, International Conference on Stochastic Programming, IIE Conference, SCS Conference, INFORMS International, International Federation of Operations Research Societies (IFORS).

Panelist/Proposal Reviewer: National Science Foundation (NSF), Air Force Office of Scientific Research (AFOSR), Natural Sciences and Engineering Research Council of Canada (NSERC).

Reviewer: Operations Research, Naval Research Logistics, Journal of Global Optimization, IIE Transactions, INFORMS Journal on Computing, European Journal of Operational Research, Mathematical Programming, Computational Optimization and Applications, Annals of Operations Research, International Journal of Modeling and Simulation, Canadian Journal of Forest Research, International Journal of Wildland Fire, Forest Science, Environmental Modeling and Software, SIAM Journal on Optimization, Optimization Letters.

GRANTS AND SPONSORED PROJECTS

1. DDDAS-SMRP: Dynamic Data Driven Integrated Simulation and Stochastic Optimization for Wildland Fire Containment, Sponsor: *National Science Foundation*, Award No. 0540000, Principal Investigator L. Ntaimo, Co-Principal Investigator, Xiaolin Hu, Georgia State University, two graduate student, 12/1/05 to 11/30/08, \$200,000 (L. Ntaimo, \$100,000, one graduate student).
2. DDDAS-SMRP: Dynamic Data Driven Integrated Simulation and Stochastic Optimization for Wildland Fire Containment, Sponsor: *National Science Foundation*, Research Experience for Undergraduates (REU), Award No. 0540000, Principal Investigator L. Ntaimo, one undergraduate student, 12/1/05 to 11/30/08, \$6,000.
3. CSR-CSI: System Integration of Dynamical Data Driven Wildfire Spread and Firefighting Modeling, Simulation, and Optimization, Sponsor: *National Science Foundation*, Award No. 0720470, Principal Investigator L. Ntaimo, one graduate student, 06/07/07 to 10/31/09, \$80,000.
4. Reducing Medication Errors in Pediatrics, Sponsor: *National Science Foundation I/UCRC*, Center for Health Organizational Transformation (CHOT), Texas A&M Research Foundation Award No. 424361-03001, Principal Investigator L. Ntaimo, Co-Principal Investigators A. Banerjee and K. Kianfar, 03/01/09 to 02/28/10, \$50,000. (L. Ntaimo, \$20,196, one graduate student).
5. EAGER: Reducing Energy Consumption in Data Centers, Sponsor: *National Science*

- Foundation*, Award No. 0946935, Principal Investigator N. Gautam, Co-Principal Investigator L. Ntaimo, two graduate students, 09/1/09 to 08/30/11, \$240,000 (L. Ntaimo, \$120,000, one graduate student).
6. Collaborative Research: CDI-Type II - Integrated Weather and Wildfire Simulation and Optimization for Wildfire Management, Sponsor: *National Science Foundation*, Award No. 0940134, Principal Investigator L. Ntaimo, Co-Principal Investigators X. Hu, Y. Hong, J. Nutaro, and M. Xue, four graduate students, 11/01/09 to 10/31/13, \$1,000,000 (L. Ntaimo, \$220,825, one graduate student).
 7. System of Systems for Petrochemical Transportation Security (SOSE), Sponsor: Texas Southern University, Primary Sponsor: *US Department of Homeland Security*, Principal Investigator L. Ntaimo (subcontract), 07/15/09 to 05/31/11, \$85,581.
 8. Computer Assisted Load Makeup, Implementation, and Education, Sponsor: *Gulf States Toyota, Inc.*, Principal Investigator B.P. Nepal, Co-Principal Investigator L. Ntaimo 05/01/13 to 04/30/14, \$154,650 (L. Ntaimo, \$38,663).
 9. Radio Advertisement Placement: Support and Enhancement, Sponsor: *JDA Software Limited*, Principal Investigator L. Ntaimo, 10/27/14 to 05/26/15, \$53,650.
 10. Can an Intelligent Commercial Vehicle Monitoring System Enhance Enforcement of Weight Regulations? Sponsor: *Texas Department of Transportation (TXDOT)*, funded. Principal Investigator L.F. Walubita, Senior Personnel L. Ntaimo, 11/01/2014 - 3/31/2015, \$40,000, (L. Ntaimo, \$3,040).
 11. The Dynamic Multi-Mission Multi-Sensor Optimal Planning Tool, Sponsor: *Sandia National Laboratories*, Principal Investigator Sivakumar Rathinam, Co-Principal Investigators L. Ntaimo 07/28/2015 - 08/30/2016, \$65,000, (L. Ntaimo, \$12,435).
 12. Modeling and Analysis of Assembly Line for F35 Production, Sponsor: *Lockheed Martin*, Principal Investigator A. Banerjee, Co-Principal Investigator L. Ntaimo, 02/01/16 to 01/31/18, \$220,000. (L. Ntaimo, \$110,000, one graduate student).

TEACHING AND COURSE DEVELOPMENT

2017 Spring Semester:

ISEN 623 – 901 Non-Linear and Dynamic Programming

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2016 Fall Semester:

ISEN 440 – 500 Systems Thinking

ISEN 640 – 600 Systems Thinking and Analysis / ISEN 440 – 501 Systems Thinking

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2016 Spring Semester:

ISEN 623 – 901 Non-Linear and Dynamic Programming

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2015 Fall Semester:

ISEN 416 – 901 Facilities Location, Layout and Material Handling

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2015 Summer Semester:

ISEN 489 (ISEN 440) Systems Thinking (TAMU-Qatar)

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2015 Spring Semester:

ISEN 416 – 901 Facilities Location, Layout and Material Handling

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2014 Fall Semester:

ISEN 440 Systems Thinking

ISEN 640 – 700 Systems Thinking and Analysis

ISEN 640 – 700 Systems Thinking and Analysis (Distance Learning)

2014 Spring Semester:

ISEN 416 – 901 Facilities Location, Layout and Material Handling

ISEN 416 – 902 Facilities Location, Layout and Material Handling

2013 Fall Semester:

ISEN 640 Systems Thinking and Analysis (Distance Learning)

2013 Summer Semester:

ISEN 489 Systems Thinking (New course offering, TAMU-Qatar)
 2013 Spring Semester:
 ISEN 416 Facilities Location, Layout and Material Handling
 ISEN 640 Systems Thinking and Analysis (Distance Learning)
 2012 Fall Semester:
 ISEN 636 Large-Scale Stochastic Optimization
 2012 Spring Semester:
 Stochastic Programming (University of Milan – Bicocca, Italy)
 2011 Fall Semester:
 ISEN 640 Systems Thinking and Analysis (Distance Learning)
 2011 Spring Semester:
 ISEN 640 Systems Thinking and Analysis (Distance Learning)
 ISEN 685 Independent Study (Stochastic Integer Programming)
 2010 Fall Semester:
 ISEN 636 Large-Scale Stochastic Optimization
 ISEN 416 Facilities Location, Layout and Material Handling
 2010 Spring Semester:
 ISEN 640 Systems Thinking and Analysis (Distance Learning)
 2009 Fall Semester:
 ISEN 416 Facilities Location, Layout and Material Handling
 ISEN 636 Large-Scale Stochastic Optimization
 2009 Spring Semester:
 ISEN 689 Systems Thinking and Analysis (Distance Learning)
 2008 Fall Semester:
 ISEN 416 Facilities Location, Layout and Material Handling
 2008 Spring Semester:
 ISEN 416 Facilities Location, Layout and Material Handling
 ISEN 689 Systems Thinking and Analysis (Distance Learning)
 2007 Fall Semester:
 ISEN 689 Large-Scale Stochastic Optimization
 2007 Spring Semester:
 ISEN 416 Facilities Location, Layout and Material Handling
 ISEN 689 Systems Thinking and Analysis (New Course Offering - Distance Learning Course)
 2006 Fall Semester:
 INEN 416 Facilities Location, Layout and Material Handling
 2006 Spring Semester:
 INEN 416 Facilities Location, Layout and Material Handling
 2005 Fall Semester:
 INEN 689 Large-Scale Stochastic Optimization (New course offering)
 2005 Spring Semester:
 INEN 420 Operations Research I
 2004 Fall Semester:
 INEN 420 Operations Research I

GRADUATE RESEARCH SUPERVISION

Students Advised

Ph.D.: 7 M.S.:12 M.E.: 12

Ph.D. Student Dissertations and Placement:

1. **Matthew W. Tanner**, May 2009 – *Associate Director, Navigant Consulting*. *Dissertation*: “New Solution Methods for Joint Chance-Constrained Stochastic Programs with Random Left-hand Side.”
2. **Eduardo Pérez**, May 2010 – *Assistant Professor, Texas State University*. *Dissertation*: “Simulation and Optimization Models for Scheduling Multi-Step Sequential Procedures in Nuclear Medicine.”
3. **Eric Beier**, May 2011 – *General Engineer, Air Force Research Laboratory*. *Dissertation*: “Subgradient-based Decomposition Methods for Stochastic Mixed-Integer Programs with Special Structures.”

4. **Tanisha G. Cotton**, May 2013 – *Industrial Engineer, Department of Veterans Affairs Center for Applied Systems Engineering (VA-CASE)*. *Dissertation*: “Computational Study of Mean-Risk Stochastic Programs.”
5. **Julian A. Gallego Arrubla**, August 2013 – *Analytics Manager, A.T. Kearney, Inc.* Procurement and Analytics Solutions Group. *Dissertation*: “Irreducible Infeasible Subsystem Decomposition for Probabilistically Constrained Stochastic Integer Programs”
6. **Saravanan Venkatachalam**, May 2015 – *Assistant Professor*, Department of Industrial and Systems Engineering, **Wayne State University**. *Dissertation*: “Algorithms for Stochastic Integer Programs using Fenchel Cutting Planes.”
7. **Michelle M. Alvarado**, December 2014 – *Postdoc, 2015- Visiting Professor*, Department of Industrial and Systems Engineering, **Texas A&M University**. *Dissertation*: “Integrated Simulation and Optimization for Decision-Making under uncertainty with Application to Healthcare”.

Postdoc: 1

Eduardo Pérez, 2010-2011.

Visiting Scholars: 1 Ph.D.

Luca Corolli, Fall 2012 – Spring 2013, University of Milan, Italy.

CURRENT STUDENTS

Ph.D.: 3, M.S.: 1

PUBLICATIONS

*Students

Refereed Journal Publications:

1. Ntaimo, L., B.P. Zeigler, M.J. Vasconcelos and B. Khargharia, “Forest Fire Spread and Suppression in DEVS,” *SIMULATION: Transactions of the Society for Modeling and Simulation International*, Vol. 80, No. 10, pp. 479-500, 2004.
2. Ntaimo, L. and S. Sen, “The Million-Variable ‘March’ for Stochastic Combinatorial Optimization,” *Journal of Global Optimization*, Vol. 32, No. 3, pp. 385-400, 2005.
3. Ntaimo, L. and S. Sen. “A Branch-and-Cut Algorithm for Two-Stage Stochastic Mixed-Binary Programs With Continuous First-Stage Variables,” *International Journal of Computational Science and Engineering*, Vol. 3, No. 6, pp. 232-241, 2008
4. Ntaimo, L. and S. Sen, “A Comparative Study of Decomposition Algorithms for Stochastic Combinatorial Optimization,” *Computational Optimization and Applications*, Vol. 40, No. 3, pp. 299-319, 2008.
5. Ntaimo, L. and M.W. Tanner*, “Computations with Disjunctive Cuts for Two-Stage Stochastic Mixed 0-1 Integer Programs,” *Journal of Global Optimization*, Vol. 41, No. 3, pp. 365-384, 2008.
6. Ntaimo, L., X. Hu and Y. Sun, “DEVS-FIRE: Towards an Integrated Simulation Environment for Surface Wildfire Spread and Containment,” *SIMULATION: Transactions of the Society for Modeling and Simulation International*, Vol. 84, No. 4, pp. 137-155, 2008.
7. Tanner, M.W.*, L. Sattenspiel and L. Ntaimo, “Finding Optimal Vaccination Strategies under Uncertainty using Stochastic Programming,” *Mathematical Biosciences*, Vol. 215, pp. 144-151, 2008.
8. Hu, X. and L. Ntaimo, “Integrated Simulation and Optimization for Wildfire Containment,” *The ACM Transactions on Modeling and Computer Simulation (TOMACS)*, Vol. 19, No. 4, pp. 19.1-19.29, 2009.
9. Ntaimo, L., “Disjunctive Decomposition for Two-Stage Stochastic Mixed-Binary Programs with Random Recourse,” *Operations Research*, Vol. 58, No.1, pp. 229-243, 2010.
10. Pérez, E.*, L. Ntaimo, C. Bailey and P. McCormack, “Modeling and Simulation of Nuclear Medicine Patient Service Management in DEVS,” *SIMULATION: Transactions of the Society for Modeling and Simulation International, Special Issue on Modeling and Simulation in Health care*,

Vol. 86, No. 8-9, pp. 481-501, 2010.

11. Byon, E., L. Ntairo and Y. Ding, "Optimal Maintenance Strategies for Wind Turbine Systems under Stochastic Weather Conditions," *IEEE Transactions on Reliability*, Vol. 59, No. 2, pp. 393-404, 2010.
12. Tanner, M. W* and L. Ntairo, "IIS Branch-and-Cut for Joint Chance-Constrained Stochastic Programs and Application to Optimal Vaccine Allocation," *European Journal of Operational Research*, Vol. 207, No. 1, pp. 290-296, 2010.
13. Trukhanov, S., L. Ntairo and A. Schaefer, "On Adaptive Multicut Aggregation for Two-Stage Stochastic Linear Programs with Recourse," *European Journal of Operational Research*, Vol. 206, No. 2, pp. 395-406, 2010.
14. Byon, E., E. Pérez*, Y. Ding and L. Ntairo, "Simulation of Wind Farm Maintenance Operations and Maintenance using Discrete Event System Specification," *SIMULATION: Transactions of the Society for Modeling and Simulation International*, Vol. 87, No. 12, pp. 1093-1117, 2011.
15. Pérez, E.* , L. Ntairo, W. E. Wilhelm, C. Bailey and P. McCormack, "Patient and Resource Scheduling of Multi-Step Medical Procedures in Nuclear Medicine," *IIE Transactions on Healthcare Systems Engineering*, Vol. 1, No. 3, pp. 168-184, 2011.
16. Hu, X., Y. Sun and L. Ntairo, "DEVS-FIRE: Design and Application of Formal Discrete Event Wildfire Spread and Suppression Models," *SIMULATION: Transactions of the Society for Modeling and Simulation International*, Vol. 88, No. 3, pp. 259-279, 2012.
17. McGaha*, M., L. Ntairo, A. Banerjee and K. Kianfar, "Reducing Pediatric Medication Errors: A Survey and Taxonomy," *IIE Transactions on Healthcare Systems Engineering*, Vol. 2, No. 2, pp. 142-155, 2012.
18. Ntairo, L., Gallego, J.A.*, C. Stripling, J. Young and T. Spencer, "A Stochastic Programming Standard Response Model for Wildfire Initial Attack Planning," *Canadian Journal of Forest Research*, Vol. 42, No. 6, pp. 987-1001, 2012.
19. Ntairo, L. "Fenchel Decomposition for Stochastic Mixed-Integer Programming," *Journal of Global Optimization*, Vol. 55, pp. 141-163, 2013.
20. Ntairo, L., J.A. Gallego*, C. Stripling, J. Young and T. Spencer, "A Simulation and Stochastic Integer Programming Approach to Wildfire Initial Attack Planning," *Forest Science*, Vol. 59, No. 1, pp. 105-117, 2013.
21. Pérez, E.* , L. Ntairo, C.O. Malavé, C. Bailey and P. McCormack, "Stochastic Online Appointment Scheduling of Multi-Step Sequential Procedures in Nuclear Medicine," *Health Care Management Science*, Vol. 16, No. 4, pp. 281-299, 2013.
22. Gallego, J.A.* , Y.M. Ko, R. Polansky, E. Pérez*, L. Ntairo and N. Gautam, "Integrating Virtualization, Speed Scaling and Powering On/Off Servers in Data Centers for Energy Efficiency," *IIE Transactions*, Vol. 45, No. 10, pp. 1114-1136, 2013.
23. Lee, G.* , E. Byon, L. Ntairo and Y. Ding, "Bayesian parametric model for assessing extreme loads on wind turbines," *The Annals of Applied Statistics*, Vol. 7, No. 4, pp. 1837-2457, 2013.
24. Gallego, J.A.* , L. Ntairo and C. Stripling, "Wildfire Initial Response Planning Using Probabilistically Constrained Stochastic Integer Programming," *International Journal of Wildland Fire*, Vol. 23, pp. 825-838, 2014.
25. Corolli, L., G. Lulli and L. Ntairo, "The Time Slot Allocation Problem under Uncertain Capacity," *Transportation Research Part C*, Vol. 46, pp. 16-29, 2014.
26. Beier, E.* , S. Venkatachalam* , L. Corolli and L. Ntairo, "Stage- and Scenario-wise Fenchel Decomposition for Stochastic Mixed 0-1 Programs with Special Structure," *Computers & Operations Research*, Vol. 59, pp. 94-103, 2015.
27. Pérez, E., L. Ntairo and Y. Ding, "Multi-Component Wind Turbine Modeling and Simulation for Wind Farm Operations and Maintenance," *SIMULATION*, Vol. 91 No. 4, pp. 360-382, 2015.
28. Corolli, L., G. Lulli, L. Ntairo and S. Venkatachalam* , "A Two-Stage Stochastic Integer Programming Model for Air Traffic Flow Management," *IMA Journal of Management Mathematics*, Vol. 28 No. 1, pp. 19-40, 2015.
29. Kabli, M* , J. Gan and L. Ntairo, "A Stochastic Programming Model for Fuel Treatment Management," *Forests*, Vol. 6, No. 6, 2015.

30. Cotton, T. and Ntairo, L. "Computational Study of Mean-Risk Stochastic Linear Programs," *Mathematical Programming Computation*, Vol. 7, pp. 471-499, 2015.
31. Beier, E.*, S. Venkatachalam*, V.J. Leon and L. Ntairo, "Nodal Decomposition-Coordination for Stochastic Programs with Private Information Restrictions," *IIE Transactions*, Vol 48. No. 3, pp. 283-297, 2016.
32. Karan, E., S. Asadi and L. Ntairo. "A stochastic optimization approach to reduce greenhouse gas emissions from buildings and transportation," *Energy* 106, 367-377, 2016.
33. Alvarado, M.M. and L. Ntairo, "Chemotherapy appointment scheduling under uncertainty using mean-risk stochastic integer programming," *Health Care Management Science*, 2016. DOI: 10.1007/s10729-016-9380-4.
34. Kwon, S., Ntairo, L., and Gautam, N. "Optimal Day-Ahead Power Procurement with Renewable Energy and Demand Response," *IEEE Transactions on Power Systems*, *accepted*, 2017.
35. Alvarado, M.M*, T. Cotton, L. Ntairo, E. Pérez and W.R. Carpentier, "Modeling and simulation of oncology clinic operations in discrete event system specification," *SIMULATION: Transactions of the Society for Modeling and Simulation International*, DOI: 10.1177/0037549717708246, pp. 1-17, 2017.

Under Review:

1. Ntairo, L., M. Alvarado* and G. Lulli, "Fenchel Disjunctive Decomposition for Mean-Risk Stochastic Mixed-Integer Programs," *under second review*, 2016.
2. Venkatachalam, S*. and L. Ntairo, "Integer Set Reduction Algorithm for Stochastic Mixed-Integer Programming," *under review*, 2016.
3. Venkatachalam, S*. and L. Ntairo, "Two-stage mean-risk stochastic programming for a replenishment problem in supply chain planning," *under review*, 2016.
4. Valicka, C.G., D. Garcia, A. Staid, J-P. Watson, G. Hackebeitl, S. Rathinam and L. Ntairo, "Models for Optimal Constellation Scheduling Under the Uncertainty of Weather," *under review*, 2016.

In-Progress Papers:

1. Gallego, J.A.*, L. Ntairo, B.K. Pagnoncelli, "Irreducible Infeasible Subsystems for Binary Systems" *working paper*, 2016.
2. Gallego, J.A.*, G. Canasse, B.K. Pagnoncelli, L. Ntairo, "Irreducible Infeasible Subsystem Decomposition for Probabilistically Constrained Stochastic Integer Programs," *working paper*, 2016.
3. Kwon, S., Ntairo, L., and Gautam, N. "Integration of Server Provisioning and Power Procurement for Energy-Efficient Data Centers with Renewable Energy and Demand Response," *working paper*, 2016.
4. Venkatachalam, S. and L. Ntairo, "Computational Study for Two-stage Stochastic 0-1 Integer Programs with Absolute Semideviation Risk Measure," *working paper*, 2016.
5. Venkatachalam, S.*, B. Mordi and L. Ntairo, "A Two-Stage Stochastic Integer Program for Auto-Carrier Loading Problem," *working paper*, 2016.
6. Venkatachalam, S*. and L. Ntairo, "Two-Stage Binary Programs with Single Continuous First-Stage," *working paper*, 2016.

Books:

Computational Stochastic Programming: Models, Algorithms and Implementation
Contract with Springer, Delivery Date: December 31, 2017.

Fenchel Disjunctive Decomposition for Stochastic Mixed-Integer Programming
Contract with Springer, Delivery Date: December 31, 2017.

Refereed Book Chapters:

1. Ntairo, L, "Perceptions Shaped by Culture," in *Study Guide for First-Year English Composition*,

19th Edition, University of Arizona Publication, 1998.

2. Sen, S., J.L. Higle, L. Ntamo, “A Summary and Illustration of Disjunctive Decomposition with Set Convexification,” in *Stochastic Integer Programming and Network Interdiction Models*, D.L. Woodruff, Ed., Kluwer Academic Press, Dordrecht, The Netherlands, pp. 105-123, 2002.
3. Byon, E., Ntamo, L., Singh, C., and Ding, Y., 2011, “Wind energy facility reliability and maintenance,” *Handbook of Wind Power Systems, Energy Systems*, P. M. Pardalos et al. (eds.), DOI: 10.1007/978-3-642-41080-2_19, Springer-Verlag Berlin Heidelberg 2013.

Magazine Featured Articles:

1. March 8, 2005: “Fire Research Ablaze at Texas A&M University,” *Texas A&M Engineering News*.
2. April 14, 2005: “Class Project Blossoms into Software that May Save Millions of Trees,” *University of Arizona SCI/TECH News*.
3. June 2005: “Hot Simulations,” *Industrial Engineer*.
4. Gallego, J.A.*, Y.M. Ko, R. Polansky, E. Pérez*, L. Ntamo and N. Gautam, “Saving Energy in Data Centers,” *Industrial Engineer*, September 2013.
5. Walubita, L.F., A.N.M. Faruk and L. Ntamo, Intelligent Freight Monitoring: A Review of Potential Technologies, *Transportation Policy Research Center*, August, 2015.
6. Beier, E.B., S. Venkatachalam, V.J. Leon and L. Ntamo, “How to Optimize with Partial Information Sharing and Data Uncertainties,” *Industrial Engineer*, to appear 2016.
7. Banerjee, A. and L. Ntamo, “Soaring to faster production”, *Texas A&M Engineering Weekly*, September 16, 2016.
8. Ntamo and S. Rathinam, “Satellite Scheduling: Solving Equations To Capture The World”, *Texas A&M Today*, October 18, 2016.

Refereed Conference Proceedings:

1. Khargharia B., S. Hariri, M. Parashar, L. Ntamo, B. Kim, “vGrid: A Framework for Building Autonomic Applications,” *Proc. of Challenges of Large Applications in Distributed Environments (CLADE)*, Seattle, WA, June 22-24, 2003.
2. Ntamo, L and L. Yu, “Distributed Discrete Optimization under Uncertainty,” *Proceedings of IIE Annual Conference 2004*, Houston, Texas, May 15-19, 2004.
3. Ntamo, L. and B.P. Zeigler, “Expression of a forest Cell Model in Parallel DEVS and Timed Cell-DEVS Formalisms,” *Proc. of the 2004 Summer Computer Simulation Conference*, San Jose, CA, USA, July 25-29, 2004.
4. Ntamo, L., and B. P. Zeigler, “Integrating Fire Suppression into a DEVS Cellular Forest Fire Spread Model,” *Proc. of the 2005 Spring Simulation MultiConference*, San Diego, CA, USA, April 3-7, pp. 48-54, 2005.
5. Hu, X., A. Muzy and L. Ntamo, “A Hybrid Agent-Cellular Space Modeling Approach for Fire Spread and Suppression Simulation,” *Proc. of 2005 Winter Simulation Conference*, Orlando, FL, USA, Dec 4-7, 2005.
6. Ntamo, L., W.J. Lee* and A. Jalora, “A Stochastic Mixed-Integer Programming Approach to Optimal Resource Allocation for Wildfire Containment,” *Proceedings of the 2006 IIE Annual Conference*, Orlando, FL, May 21-24, 2006.
7. Ntamo, L. and B. Khargharia, “Two-Dimensional Fire Spread Decomposition in Cellular DEVS Models,” *Proceedings of 2006 Spring Simulation Multi-Conference*, Huntsville, AL, April 2-5, 2006.
8. Hu, X. and L. Ntamo, “Dynamic Multi-Resolution Cellular Space Modeling for Forest Fire Simulation,” *Proceedings of 2006 Spring Simulation Multi-Conference*, Huntsville, AL, April 2-5, 2006.
9. Gu, F.*, X. Hu, and L. Ntamo, “Towards Validation of DEVS-FIRE Wildfire Simulation Model,” *Proceedings of the High Performance Computing and Simulation Symposium (HPCS'08)*, part of SpringSim'08, 2008.
10. Pérez, E.*, L. Ntamo, Byon, E.* and Y. Ding, “A Stochastic DEVS Wind Turbine Component Model for Wind Farm Simulation,” *Proceedings of the 2010 Spring Multiconference*, Orlando, FL, April 11-15, 2010.

11. N. Gautam and L. Ntairo, "Achieving energy-efficiency in data-center industry: A proactive-reactive resource management framework," in *Proceedings of NSF CMMI Engineering Research and Innovation Conference*, 2011.
12. Alvarado, M. *, T. Cotton* and L. Ntairo. "A simulation and optimization approach to scheduling chemotherapy appointments," *2013 Interservice/Industry Training, Simulation, and Education Conference Proceedings*, Orlando, FL, December 2-5, 2013.
13. Pérez, E.* , L. Ntairo and Y. Ding, "Simulation of Wind Farm Operations and Maintenance," *Proceedings of the ASME Turbo Expo 2013: Power for Land, Sea and Air GT2013*, June 3-7, 2013, San Antonio, Texas, USA.
14. Sundar, K. *, J. Qin*, S. Rathinam, L. Ntairo, S. Darbha, and C. Valicka. "Algorithms for a Satellite Constellation scheduling Problem," *2016 IEEE International Conference on Automation Science and Engineering (CASE)*, DOI: 10.1109/COASE.2016.7743431, 2016.

SCHOLARLY PRESENTATIONS

1. Ntairo, L. "Irreducible Infeasible Subsystem (IIS) Decomposition for Probabilistically Constrained Stochastic Programming," ISyE, Georgia Tech, Atlanta, Dec 6, 2016, **Seminar**, invited by Professor Natasha Boland.
2. Ntairo, L., J. Gallego-Arrubla and B. Pagnoncelli, "Irreducible Infeasible Subsystem Decomposition For Stochastic Integer Programs With Probabilistic Constraints," INFORMS Annual Conference, Nashville, Nov 13-16, 2016.
3. Parab, P. and L. Ntairo, "Decomposition For Multistage Stochastic Programs With Quantile And Deviation Risk Measures," INFORMS Annual Conference, Nashville, Nov 13-16, 2016.
4. Venkatachalam, S. and L. Ntairo, "Computational Study For Two-stage Stochastic 0-1 Integer Programs With Absolute Semi Deviation Risk Measure," INFORMS Annual Conference, Nashville, Nov 13-16, 2016.
5. Soongeol Kwon, N. Gautam and L. Ntairo, "Optimal Day-ahead Power Procurement with Renewable Energy, Storage, and Demand Response," INFORMS Annual Conference, Nashville, Nov 13-16, 2016.
6. Ntairo, L., J. Gallego-Arrubla and C. Stripling, "Probabilistically Constrained Stochastic Programming for Wildfire Initial Response Planning," International Conference on Stochastic Programming (ICSP), Buzios, Brazil June 25 – July 1, 2016.
7. Ntairo, L., J. Gallego-Arrubla and B. Pagnoncelli, "Irreducibly Infeasible Subsystem Approach for Stochastic Integer Programs with Probabilistic Constraints," INFORMS Optimization Society Conference, Princeton, Mar 17-19, 2016.
8. Venkatachalam, S. and L. Ntairo, "Decomposition Algorithm for Two-stage Stochastic Integer Programs with Deviation Risk Measures," INFORMS Annual Conference, Philadelphia, Nov 1-4, 2015.
9. Ntairo, L. "Simulation and Optimization Models for Nuclear Medicine Patient Service Management," TAMU INFORMS Student Chapter Seminar, March 27, 2015.
10. Alvarado, M.M. and L. Ntairo, "Integrated Simulation and Optimization for Scheduling Chemotherapy Appointments under Uncertainty," INFORMS Annual Conference, San Francisco, Nov 9-12, 2014.
11. Mordi, B., S. Venkatachalam and L. Ntairo, "Stochastic Auto-Carrier Loading Problem," INFORMS Annual Conference, San Francisco, Nov 9-12, 2014.
12. Ntairo, L., M.M. Alvarado and G. Lulli, "Fenchel Disjunctive Decomposition for Mean-Risk Stochastic Integer Programs," INFORMS Annual Conference, San Francisco, Nov 9-12, 2014.
13. Ntairo, L., M.M. Alvarado and T. Cotton, "Simulation and Optimization Approach for Managing Oncology Clinic Operations," IIE Annual Conference, Montreal, May 31-June 3, 2014.
14. Ntairo, L., M.M. Alvarado and T. Cotton, "DEVS-CHEMO: A Discrete Event Simulation Model for Oncology Clinic Operations," IIE Annual Conference, Montreal, May 31-June 3, 2014.
15. Venkatachalam, S. and L. Ntairo, "Fenchel Decomposition for SIP with Second-Stage Integer Variables," INFORMS Annual Conference, San Francisco, Nov 9-12, 2014.
16. Alvarado, M.M.* , T. Cotton* and L. Ntairo, "A Simulation-optimization Approach for Scheduling Outpatient Chemotherapy Appointments," INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.
17. Alvarado, M.M.* and L. Ntairo, "A Simulation-optimization Approach for Wildfire Extended Attack Response Planning," INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.
18. Gallego, J.A.* and L. Ntairo, "A Probabilistic Constrained Programming Model for Wildfire Initial Response Planning," INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.

19. Gallego, J.A.* and L. Ntairo, “Branch-and-Cut for Probabilistically Constrained Stochastic Integer Programs,” INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.
20. Venkatachalam, S.*, L. Corolli, G. Lulli and L. Ntairo, “Stochastic Integer Programming Models for Air Traffic Flow Management,” INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.
21. Venkatachalam, S.*, E. Beier, L. Corolli and L. Ntairo, “Fenchel Decomposition for Stochastic Integer Programs with Special Structure,” INFORMS Annual Conference, Minneapolis, Oct 6-9, 2013.
22. Alvarado, M.M.* and L. Ntairo, “A Stochastic Integer Programming Extended Attack Response Model for Large-Scale Wildfires,” 13th Stochastic Programming Conference, Bergamo - July 8-13, 2013.
23. Ntairo, L., M.M. Alvarado* and G. Lulli, “Fenchel Disjunctive Decomposition for Mean-Risk Stochastic Integer Programs,” 13th Stochastic Programming Conference, Bergamo - July 8-12, 2013.
24. Ntairo, L. “Simulation and Optimization Models for Nuclear Medicine Patient Service Management,” Department of Informatics, Systems and Communication, University of Milan-Bicocca, Jan 23, 2012. **Seminar**, invited by Professor Lulli.
25. Ntairo, L. “Fenchel Decomposition for Stochastic Mixed-Integer Programming,” Department of Informatics, University of Milan - Sede di Crema, May 17, 2012. **Seminar**, invited by Professors Cordone and Righini.
26. Gallego, J.A.* and L. Ntairo, “A Probabilistic Constrained Programming Model for Wildfire Initial Attack Planning,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
27. Corolli, L.*, G. Lulli and L. Ntairo, “A Decomposition Approach for the Stochastic ATFM Problem,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
28. Alvarado, M.M.* and L. Ntairo, “A Simulation-optimization Approach for Large-scale Wildfire Extended Attack Response Planning,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
29. Cotton, T.* and L. Ntairo, “Computational Study of Stochastic Programs with Mean-Risk Objectives,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
30. Alvarado, M.M.*, G. Lulli and L. Ntairo, “Fenchel and Disjunctive Decomposition for Mean-Risk Stochastic Integer Programs,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
31. Alvarado, M.M.* and L. Ntairo, “A Stochastic Programming Extended Attack Response Model for Large-Scale Wildfires,” ISERC, Orlando, May 22, 2012.
32. Cotton, T.* and L. Ntairo, “Mean-Risk Stochastic Programming Approach to Chemotherapy Patient and Resource Scheduling,” ISERC, Orlando, May 22, 2012.
33. Corolli, L., G. Lulli and L. Ntairo, “Time Slot Allocation under Capacity Uncertainty,” Italian Operational Research Society (AIRO) Conference, September 4-6, 2012.
34. Gallego, J.A.* and L. Ntairo, “Branch-and-Cut Approach Using IIS Cuts for Stochastic Integer Programs with Probabilistic Constraints,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
35. Youssef, N.* and L. Ntairo, “Disjunctive Cutting Plane Approach Two-Stage Mixed-Binary Stochastic Programs with CVaR,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
36. Sethuraman, S.*, N. Gautam and L. Ntairo, “Efficient Management of Demand Loads in Cloud Computing Environments,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
37. Alvarado, M.M.*, T. Cotton* and L. Ntairo, “Modeling and Simulation of an Oncology Clinic using DEVS,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
38. Cotton, T.*, Alvarado, M.M.* and L. Ntairo, “Mean-risk Stochastic Optimization Approach for Chemotherapy Scheduling,” INFORMS Annual Conference, Phoenix, Oct 14-17, 2012.
39. Gallego, J.A.* and L. Ntairo, “A Probabilistic Constrained Programming Standard Response Model for Wildfire Initial Attack Planning,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
40. McGaha, M.*, T. Cotton*, E. Pérez* and L. Ntairo, “A Stochastic Integer Programming Approach to Chemotherapy Scheduling,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
41. McGaha, M.* and L. Ntairo, “A Stochastic Programming Extended Attack Response Model for Large-scale Wildfires,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
42. Gallego, J.A.* and L. Ntairo, “Branch-And-Bound Approach for Probabilistic Constrained Integer Programs,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
43. Cotton, T.* and L. Ntairo, “Computational Study of Mean-Risk Stochastic Programs,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
44. Youssef, N.* and L. Ntairo, “Disjunctive Cutting Plane Approach for Mean-Risk Averse Two-Stage Mixed-Binary Stochastic Programs,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
45. Pérez, E.*, E. Byon, Y. Ding and L. Ntairo, “Modeling and Simulation of Wind Energy Systems

- Operations in DEVS,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
46. Sethuraman, S., L. Ntairo and N. Gautam, “On Efficiently Placing Applications and Contents,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
 47. Beier, E.* and L. Ntairo, “Scenario Fenchel Decomposition for Stochastic Integer Programs,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
 48. Cotton, T.*, M. McGaha*, E. Pérez* and L. Ntairo, “Scheduling Oncology Patients using a Mean-Risk Stochastic Programming Approach,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
 49. Polansky, R., J. Gallego*, N. Gautam, Y.M. Ko, L. Ntairo and E. Pérez*, “Unified Approach to the Energy Efficiency Problem in Data Centers,” INFORMS Annual Conference, Charlotte, Nov 13-16, 2011.
 50. Ntairo, L. “Computations with Fenchel Decomposition for Stochastic Integer Programming”, IFORS, Melbourne, Australia, July 10-15, 2011.
 51. Ntairo, L. “A Stochastic Programming Approach to Wildfire Initial Attack Planning under Uncertainty”, 14th Symposium for Systems Analysis in Forest Resources (SSAFR), Santiago (Maintencillo), Chile, Mar 8-11, 2011.
 52. Gallego, J.A.*, N. Gautam, L. Ntairo and R. Polansky, A Stochastic Programming Approach for Reducing Energy Consumption in Data Centers,” INFORMS Annual Conference, Austin, Nov 7-10, 2010.
 53. Gallego, J.A.*, L. Ntairo, T. Spencer, C. Stripling and J. Young, “A Stochastic Programming Standard Response Model for Wildfire Initial Attack Planning,” INFORMS Annual Conference, Austin, Nov 7-10, 2010.
 54. Beier, E.* and L. Ntairo, “Dual Decomposition with Fenchel Cutting Planes for Stochastic Integer Programs,” INFORMS Annual Conference, Austin, Nov 7-10, 2010.
 55. McGaha, M.*, A. Banerjee, K. Kianfar and L. Ntairo, “Reducing Medication Errors in Pediatrics,” INFORMS Annual Conference, Austin, Nov 7-10, 2010.
 56. Pérez, E.*, C. Malave and L. Ntairo, “Stochastic Online Scheduling of Multi-step Sequential
 57. Medical Procedures in Nuclear Medicine,” INFORMS Annual Conference, Austin, Nov 7-10, 2010.
 58. Ntairo, L. and J. A. Gallego Arrubla*, “Modeling and Application of Stochastic Programming to Wildfire Initial Attack Planning”, 12th Conference on Stochastic Programming (SPXII), Halifax, Nova Scotia, Canada, Aug 17, 2010.
 59. McGaha, M.*, L. Ntairo, A. Banerjee and K. Kianfar, "Reducing Medication Errors in Pediatrics," Center for Health Organization Transformation 2010 Semi-Annual Winter Meeting, Houston, TX, February 25, 2010.
 60. Pérez, E.*, L. Ntairo, C. Bailey and P. McCormack, "Improving Patient Service Management in Hospital Nuclear Medicine Departments," Poster Presentation, Center for Health Organization Transformation 2010 Semi-Annual Winter Meeting, Houston, TX, February 25, 2010.
 61. Ntairo, L., “Fenchel Decomposition for Stochastic Mixed-Integer Programming,” 20th International Symposium on Mathematical Programming (ISMP), Chicago, Aug 23 - 28, 2009.
 62. Beier, E.* and L. Ntairo, “A Stochastic Optimization Method for Supply Chain Inventory Coordination under Private Information,” INFORMS Annual Conference, Washington D.C., Oct 13-15, 2008.
 63. Gallego, J.A.* and L. Ntairo, “A Stochastic Programming Model for Initial Response for Wildfire Containment,” INFORMS Annual Conference, Washington D.C., Oct 13-15, 2008.
 64. Ntairo, L. and X. Hu, “Dynamical Data Driven Integrated Simulation and Optimization for Wildfire Containment,” INFORMS Annual Conference, Washington D.C., Oct 13-15, 2008.
 65. Tanner, W.M*. and L. Ntairo, “MIP Approaches to Joint Chance-Constrained Programs with Random Technology Matrices,” INFORMS Annual Conference, Washington D.C., Oct 13-15, 2008.
 66. Pérez, E*. and L. Ntairo, “Patient Scheduling in Healthcare Nuclear Medicine Departments (NMDs),” INFORMS Annual Conference, Washington D.C., Oct 13-15, 2008.
 67. Tanner, M. and L. Ntairo, “IIS Inequalities for Jointly Constrained Stochastic Programs: Implementation and Computational Results,” INFORMS Southwest Regional Conference, College Station, TX, April 18 - 19, 2008.
 68. Ntairo, L., “Disjunctive Cuts for Two-Stage Stochastic Mixed 0-1 Programs with Recourse and Applications,” The Department of Computational & Applied Mathematics, Rice University, Colloquium

- Lectures, Nov 12, 2007.
69. Ntaimo, L., "A Computational Study of Disjunctive Cuts for Two-Stage Stochastic Mixed 0-1 Programs with Recourse," Department of Industrial & Systems Engineering, Georgia Tech, ISyE Discrete Optimization **Seminars**, Oct 25, 2007.
 70. Ntaimo, L., "A Simulation and Stochastic Programming Approach to Resource Deployment for Wildfire Containment," INFORMS Annual Conference, Seattle, WA, Nov 4 - 7, 2007.
 71. Tanner, M.W.* and L. Ntaimo, "A Scenario-based Branch-and-cut Algorithm for Stochastic Programs with Probabilistic Constraints," INFORMS Annual Conference, Seattle, WA, Nov 4 - 7, 2007.
 72. Ntaimo, L. and M.W. Tanner*, "A Computational Study of Disjunctive Cuts for Two Stage Stochastic 0-1 Programs with Recourse," 11th Conference on Stochastic Programming (SPXI), Vienna, Austria, Aug 27-31, 2007.
 73. Ntaimo, L. and M.W. Tanner*, "Disjunctive Decomposition for Two-Stage Stochastic Mixed 0-1 Programs with Random Recourse," 2007 INFORMS International, Puerto Rico, July 8-11, 2007.
 74. Tanner, M.W.* and L. Ntaimo, "A Computational Study of Lift-and-Project Cuts for Stochastic Mixed 0-1 Programs," 2007 INFORMS International, Puerto Rico, July 8-11, 2007.
 75. Ntaimo, L., "Disjunctive Decomposition for Stochastic Mixed-Integer Programs and Applications," Department of Industrial Engineering, University of Pittsburgh, **Seminar Series**, Feb 22, 2007.
 76. Ntaimo, L., "A Class of Algorithms for Large-Scale Stochastic Mixed-Integer Programs and Applications," Department of Mechanical Engineering, University of Texas at Austin, **Seminar Series**, Sept 15, 2006.
 77. Ntaimo, L., "Disjunctive Decomposition for Stochastic Mixed-Binary Programs with Random Recourse," International Symposium on Mathematical Programming, Rio De Janeiro, Brazil, Jul 31 - Aug 4, 2006 - (Invited Talk: Stochastic Programming).
 78. Ntaimo, L., "A Stochastic Mixed-Integer Programming Approach for Wildfire Containment," IIE Annual Conference, Orlando, FL, May 21-24, 2006 - (with Won Ju Lee and Anshu Jalora).
 79. Ntaimo, L., "Dynamic Multi-Resolution Cellular Space Modeling for Forest Fire Simulation," Spring Simulation Multiconference - DEVS Integrative M&S Symposium (DEVS'06), Von Braun Center, Huntsville, AL, Apr 2-5, 2006 - (with X. Hu).
 80. Ntaimo, L., "Two-Dimensional Fire Spread Decomposition in Cellular DEVS Models," Spring Simulation Multiconference - DEVS Integrative M&S Symposium (DEVS'06), Von Braun Center, Huntsville, AL, Apr 2-5, 2006 (with B. Khargharia).
 81. Ntaimo, L., "Discrete Event Modeling and Simulation of Forest Fire Spread and Suppression," First Friday AAPO Lecture Series, Texas A&M University, Nov 4, 2005 (Invited Talk).
 82. Ntaimo, L., "A Comparative Study of Decomposition Algorithms for Stochastic Mixed-Integer Programming," INFORMS Annual Conference, San Francisco, CA, Nov 15, 2005 (Session Chair: Stochastic Programming).
 83. Ntaimo, L., "A Hybrid Agent-Cellular Space Modeling Approach for Fire Spread and Suppression Simulation," 2005 Winter Simulation Conference, Orlando, FL, Dec 4-7, 2005 (with X. Hu and A. Muzy).
 84. Ntaimo, L., "Modeling and Simulation of Forest Fire Spread and Suppression in DEVS," Dept. of Industrial Engineering Seminar Series, Texas A&M University, College Station, TX, Sep 5, 2005.
 85. Ntaimo, L., "Decomposition Algorithms for Stochastic Combinatorial Optimization and Applications," IIE Annual Conference, Atlanta, GA, May 14-18, 2005 - (Session Chair: Large-Scale Optimization).
 86. Ntaimo, L., "Disjunctive Decomposition with Branch-and-Cut for Stochastic Mixed-Integer Programming," IFORS, Honolulu, Hawaii, Jul 11-15, 2005 (Invited Session: Stochastic Programming).
 87. Ntaimo, L., "Integrating Fire Suppression into a DEVS Cellular Forest Fire Spread Model," Spring Simulation Multiconference, San Diego, CA, Apr 3-7, 2005 (Invited Session: DEVS Applications).
 88. Ntaimo, L., "Disjunctive Decomposition with Branch-and-Cut (D2-BAC) for two-stage SMIP," INFORMS Conference, Denver, CO, October 25, 2004 (Invited Session: Stochastic Integer Programming).
 89. Ntaimo, L., "Disjunctive decomposition for stochastic mixed-integer programming with continuous first-stage," Stochastic Programming Conference, Tucson, AZ, Oct 12, 2004 (Session Chair: Stochastic Integer Programming).

90. Ntaimo, L., “Decomposition algorithms for stochastic combinatorial optimization,” Dept. of Industrial Engineering **Seminar** Series, Texas A&M University, College Station, TX, Sep 13, 2004.
91. Ntaimo, L., “Expressing a forest cell model in Parallel DEVS and Timed Cell-DEVS formalisms,” 2004 Summer Computer Simulation Conference, San Jose, CA, Jul 26, 2004 – (Invited Session: DEVS Applications).
92. Ntaimo, L., “Distributed Discrete Optimization under Uncertainty,” IIE Annual Conference, Houston, TX, May 2004 (Invited Session: Parallel/Distribution Algorithms).
93. Ntaimo, L., “Stochastic Mixed-Integer Programming for Server Location Problems under Uncertainty,” INFORMS Conference, Atlanta, GA, Oct, 2003 (Invited Session: Stochastic Integer Programming).
94. Ntaimo, L., “Algorithms for Large Scale Stochastic Mixed-Integer Programming and Applications to Server Location Problems under Uncertainty,” Dept. of Systems and Industrial Engineering **Seminar** Series, University of Arizona, May 2003.
95. Ntaimo, L., “Online Estimation of Bucket Fullness for a Wheel Loader for Autonomous Rock Excavation using Artificial Neural Networks,” Mining and Geological Engineering Dept. **Seminar** Series, University of Arizona, Oct 2000.