

CURRICULUM VITAE

Oguzhan Alagoz

October 2009

CONTACT INFORMATION

Department of Industrial and Systems Engineering, University of Wisconsin-Madison

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ACADEMIC EMPLOYMENT

Assistant Professor of Industrial and Systems Engineering, August 2005-present

Affiliate Assistant Professor, Department of Population Health Sciences, August 2008- present

Director, UW-Institute for Clinical and Translational Research Simulation Center, October 2008- present

University of Wisconsin-Madison, Madison, WI.

Visiting Assistant Professor of Operations, August 2004-June 2005

Weatherhead School of Management, Case Western Reserve University, Cleveland, OH

Teaching/Research Assistant, August 2000-August 2004

University of Pittsburgh, Department of Industrial Engineering, Pittsburgh, PA.

Teaching/Research Assistant, September 1999-July 2000

Middle East Technical University, Department of Industrial Engineering, Ankara, Turkey.

EDUCATION

Ph.D. in Industrial Engineering, August 2004

Department of Industrial Engineering, University of Pittsburgh, Pittsburgh, PA.

M.S. in Industrial Engineering, July 2000

Department of Industrial Engineering, Middle East Technical University, Ankara, Turkey.

B.S. in Industrial Engineering, June 1997

Department of Industrial Engineering, Bilkent University, Ankara, Turkey

HONORS AND AWARDS

- NSF CAREER Award, 2009
- INFORMS Junior Faculty Interest Group (JFIG) best paper competition, 2nd place, 2008
- INFORMS George B. Dantzig Dissertation Award, Honorable Mention, 2005
- INFORMS Service Science Section best paper competition, 1st place, 2009
- Granted full financial support for the B.S. program of the Industrial Engineering Department of Bilkent University, Ankara, Turkey, 1993-1997

- Participant of the 2003 Institute for Operations Research and Management Sciences (INFORMS) Doctoral Colloquium
- Participant of the 2004 Institute for Industrial Engineers (IIE) Doctoral Colloquium
- Participant of Young Researcher Roundtable, INFORMS Conference on O.R. Practice, 2006
- Supervised research of Jagpreet Chhatwal who won the 2008 Best Student Paper Award of the Decision Analysis Society of INFORMS, 2008 Best Student Paper Award of the Manufacturing and Service Operations Management Society of INFORMS, and INFORMS 2007 Best Poster Award
- Supervised Jagpreet Chhatwal's dissertation that received INFORMS George B. Dantzig Dissertation 2nd place Award, 2009
- Supervised research of Turgay Ayer who won the 2009 Lee B. Lusted student prize of the Society for Medical Decision Making (SMDM) Annual Meeting.
- Paul Carbone Prize for Best Poster in Cancer Control during 2nd Annual UW Carbone Comprehensive Cancer Center (UWCCC) Research Retreat in 2008
- Editorial Board Member of *Medical Decision Making* (2009-present)

REFEREED BOOK CHAPTERS (*= one of my students)

1. **O. Alagoz**, A. J. Schaefer and M. S. Roberts (2009), "Optimizing Organ Allocation and Acceptance," in *Handbook of Optimization in Medicine* edited by Panos Pardalos and Edwin Romeijn, Springer US, p. 1-24.
2. **O. Alagoz** and M. Ayvaci* (2009), "Uniformization in Markov Decision Processes," to appear in *Encyclopedia for Operations Research and Management Science* edited by James J. Cochran, John Wiley & Sons.
3. **O. Alagoz**, T. Ayer*, and F. S. Erenay* (2009), "Operations Research Models for Cancer Screening," to appear in *Encyclopedia for Operations Research and Management Science* edited by James J. Cochran, John Wiley & Sons.
4. G. Cakici* and **O. Alagoz** (2009), "A Survey of the Simulation Models for Evaluating Diabetic Retinopathy Screening Policies," submitted to *Advances in Computational Biology* edited by H. Arabnia, Springer.
5. J. Shi and **O. Alagoz** (2009), "A Survey of Mathematical Methods for Designing an Optimal Cancer Chemotherapy Plan," submitted to *Advances in Computational Biology* edited by H. Arabnia, Springer.

REFEREED JOURNAL PUBLICATIONS

Published/Accepted

1. **O. Alagoz** and M. Azizoglu (2003) "Rescheduling of Identical Parallel Machines under Machine Eligibility Constraints," *European Journal of Operational Research*, 149(3), p. 523-532.
2. **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts (2004), "The Optimal Timing of Living-Donor Liver Transplantation," *Management Science*, 50(10), p.1420-1430.
3. S. M. Shechter, C. L. Bryce, **O. Alagoz**, J. E. Kreke, J. E. Stahl, A. J. Schaefer, D. C. Angus and M. S. Roberts (2005), "A Clinically Based Discrete-Event Simulation of End-Stage Liver Disease and the Organ Allocation Process," *Medical Decision Making*, 25(2), p. 199-209.

4. M. Azizoglu and **O. Alagoz** (2005), "Parallel Machine Rescheduling with Machine Disruptions," *IIE Transactions*, 37(12), p.1113-1118.
5. **O. Alagoz**, C. L. Bryce, S.M. Shechter, A. J. Schaefer, C. C. Chang, D. C. Angus and M. S. Roberts (2005), "Incorporating Biological Natural History in Simulation Models: Empirical Estimates of the Progression of End-stage Liver Disease," *Medical Decision Making*, 25(6), p. 620-632.
6. **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts (2007), "Determining the Acceptance of Cadaveric Livers Using an Implicit Model of the Waiting List," *Operations Research*, 55(1), p. 24-36.
7. **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts (2007), "Choosing among Living-Donor and Cadaveric Livers," *Management Science*, 53(11), p.1702-1715.
8. B. Sandikci, L. M. Maillart, A. J. Schaefer, **O. Alagoz**, and M. S. Roberts (2008), "Estimating the Patient's Price of Privacy in Liver Transplantation," *Operations Research*, 56(6), p.1393 -1410.
9. **O. Alagoz**, B. A. Norman and A. E. Smith (2008), "Determining Aisle Structures for Facility Designs Using a Hierarchy of Algorithms," *IIE Transactions*, 40(11), p.1019-1031.
10. J. Chhatwal*, **O. Alagoz**, M. J. Lindstrom, C. E. Kahn, K. A. Shaffer and E. S. Burnside (2009), "A Logistic Regression Model Based on the National Mammography Database Format to Aid Breast Cancer Diagnosis," *American Journal of Roentgenology*, 192(4), p.1117-1127.
 - this paper was covered extensively in media (more than 60 websites and news sites as of April 9, 2009), see for example
<http://in.news.yahoo.com/139/20090404/981/tsc-novel-computer-based-model-to-help-i.html>
http://www.upi.com/Health_News/2009/04/06/Model-helps-diagnose-breast-cancer/UPI-47521239063375/ (United Press International)
11. E. S. Burnside, J. Davis, J. Chhatwal*, **O. Alagoz**, M. J. Lindstrom, B. M. Geller, B. Littenberg, C. E. Kahn, K. A. Shaffer, and C. D. Page (2009), "Probabilistic Computer Model Developed from Clinical Data in the National Mammography Database Format to Classify Mammographic Findings," *Radiology*, 251(3), p.663-672.
12. T. Ayer*, J. Chhatwal*, **O. Alagoz**, E.S. Burnside, and C.E. Kahn (2009), "Comparison of Logistic Regression and Artificial Neural Network Models with an Example in Breast Cancer Risk Estimation Based on Mammography Findings," *Radiographics* (In press).
13. J. Zhuang, V. Bier, and **O. Alagoz** (2009), "Modeling Secrecy and Deception in a Multiple-period Attacker-Defender Signaling Game," *European Journal of Operational Research* (In press).
14. **O. Alagoz**, H. E. Hsu, M. S. Roberts, and A. J. Schaefer (2009), "Markov decision processes: A tool for sequential decision making under uncertainty," to appear in *Medical Decision Making* (In press).
15. T. Ayer*, **O. Alagoz**, J. Chhatwal*, J. Shavlik, E.S. Burnside, and C.E. Kahn (2009), "Breast Cancer Risk Estimation with Artificial Neural Networks Revisited: Discrimination and Calibration," *Cancer* (In press).
 - winner of SMDM 2009 Lee B. Lusted Student Prize
16. S. M. Shechter, **O. Alagoz**, and M. S. Roberts (2009), "Irreversible Treatment Decisions under Consideration of the Research and Development Pipeline for New Therapies," *IIE Transactions* (In press).

Submitted/Under review

17. J. Chhatwal*, **O. Alagoz**, and E. S. Burnside (2009), "Optimal Policies for Biopsy Decision-Making Based on Mammography Findings and Demographic Factors," submitted.
 - 2nd place award of 2008 INFORMS JFIG paper competition
 - winner of 2008 Best Student Paper Award of the Decision Analysis Society of INFORMS
 - winner of 2008 Best Student Paper Award of the Manufacturing and Service Operations Management Society of INFORMS
 - winner of INFORMS 2007 Annual Meeting Best Poster Award
18. M. Akan, **O. Alagoz**, B. Ata, F. S. Erenay*, and A. Said (2009) (names are in alphabetical order), "A Broader View of Designing the Liver Allocation System," submitted.
 - winner of 2009 Best Paper Award of the Service Science Section of INFORMS (sponsored by IBM)
19. F. S. Erenay*, **O. Alagoz**, R. Banerjee, R. Cima, "Modeling the Natural History of Metachronous Colorectal Cancer under Colonoscopy Screenings," submitted.
20. D. Ge, A. Krishnamurthy, **O. Alagoz**, "Optimal Production Control Policy for Kanban Controlled Systems with Advance Demand Information," submitted.

REFEREED CONFERENCE PROCEEDINGS

1. **O. Alagoz**, C. L. Bryce, J. Chang, A. J. Schaefer, D. C. Angus, and M. S. Roberts (2002), "Predicting the future health status of liver disease patients using empiric stochastic models," Proceedings of the 24th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making, 22(6), p. 541. Abstract.
2. **O. Alagoz**, A. J. Schaefer, L. M. Maillart, and M. S. Roberts (2002), "Determining the optimal timing of living donor liver transplantation using a Markov decision process (MDP) model", Proceedings of the 24th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making, 22(6), p. 558. Abstract.
3. **O. Alagoz**, B. A. Norman and A. E. Smith (2002), "Designing Aisle Networks to Facilitate Material Flow," Progress in Material Handling Research:2002 edited by R. Meller, M. K. Ogle, B. A. Peters, G. D. Taylor and J. Usher. p. 11-25. Material Handling Institute, Charlotte, NC.
4. C. L. Bryce, **O. Alagoz**, A.J. Schaefer, M.S. Roberts (2003), "Modeling the Progression of Liver Disease over Time: A Comparison of Level and Direction-based Algorithms," Proceedings of the 25th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making 23(6), p. 556, 2003. Abstract.
5. M. S. Roberts, C. L. Bryce, A.J. Schaefer, S.M. Shechter, **O. Alagoz**, D.C. Angus (2003), "Optimal Organ Allocation Policy: A Biologically based Simulation Model," Proceedings of the 25th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making 23(6), p. 575. Abstract.
6. **O. Alagoz**, L.M. Maillart, A.J. Schaefer, and M.S. Roberts (2005), "When to Accept a Cadaveric Liver Offer for Transplantation? A Markov Decision Process (MDP) Approach," Proceedings of the 26th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making 25(1), p. E12. Abstract.

7. **O. Alagoz**, L.M. Maillart, A.J. Schaefer, and M.S. Roberts (2006), "Choosing Between Cadaveric and Living-Donor Livers: A Markov Decision Process (MDP) Model Approach," Proceedings of the 27th Annual Meeting of the Society for Medical Decision Making. Also appears in Medical Decision Making, 26(1), p. E74. Abstract.
8. J. Chhatwal*, **O. Alagoz**, C.E. Kahn, E.S. Burnside (2006) "A Logistic Regression Model to Aid Breast Cancer Diagnosis Based on the National Mammography Database Format," Proceedings of the 92nd Annual Meeting of Radiology Society of North America 2006. Abstract.
9. J. Chhatwal*, **O. Alagoz**, C.E. Kahn, E.S. Burnside (2006) "Bayesian Network Versus Logistic Regression Model for Computer Aided Diagnosis of Breast Cancer," Proceedings of the 28th Annual Meeting of the Society for Medical Decision Making. Abstract.
10. B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts, and A. J. Schaefer (2006), "Using the Waiting List Information to Optimize the Timing of Liver Transplantation," Proceedings of the 28th Annual Meeting of the Society for Medical Decision Making. Abstract.
11. J. Chhatwal*, **O. Alagoz**, and E.S. Burnside (2007), "When to Biopsy in Breast Cancer Diagnosis? A Quantitative Model Using Markov Decision Processes," Proceedings of the 29th Annual Meeting of the Society for Medical Decision Making. Abstract.
12. J. Chhatwal*, **O. Alagoz**, and E.S. Burnside (2007), "Receiver Operating Characteristic (ROC) Curves versus Precision-Recall (PR) Curves in Models Evaluated with Unbalanced Data," Proceedings of the 29th Annual Meeting of the Society for Medical Decision Making. Abstract.
13. B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts, and A. J. Schaefer (2007), "Estimating the Price of Privacy in Liver Transplantation," Proceedings of the 29th Annual Meeting of the Society for Medical Decision Making. Abstract.
14. E.S. Burnside, J. Chhatwal*, K. Shinki, K. A. Shaffer, L. R. Salkowski, J. P. Fine, and **O. Alagoz** (2007), "Calculating Mammography Performance at the Examination versus Finding Level Significantly Affects Outcome Measures," Proceedings of the 93rd Annual Meeting of Radiology Society of North America 2007. Abstract.
15. J. Chhatwal*, **O. Alagoz**, and E. S. Burnside (2008) "Optimal Policies for Breast Biopsy Decision Making," Proceedings of the Manufacturing and Service Operations Management Society 2008 Conference. Abstract.
16. J. Chhatwal*, **O. Alagoz**, and E. S. Burnside (2008), "Biopsy or Short Interval Follow-Up? A Markov Decision Process Model for Early Diagnosis of Breast Cancer," Proceedings of the 30th Annual Meeting of the Society for Medical Decision Making. Abstract.
17. J. Chhatwal*, **O. Alagoz**, H. G. Nassif, E. A. Sickles, C. S. Jovais, and E. S. Burnside (2008), "Predicting the Risk of Invasive versus In-situ Breast Cancer to Aid Clinical Management," Proceedings of the 30th Annual Meeting of the Society for Medical Decision Making. Abstract.
18. T. Ayer*, **O. Alagoz**, J. Chhatwal*, J. Shavlik, C. Kahn, and E. S. Burnside (2008), "Comparing Artificial Neural Network Training Strategies for Breast Cancer Risk Prediction," Proceedings of the 30th Annual Meeting of the Society for Medical Decision Making. Abstract.

19. F. S. Erenay*, **O. Alagoz**, R. Banerjee, and R. Cima (2008), "Simulation of Secondary Colorectal Cancer under Colonoscopy Screenings," Proceedings of the 30th Annual Meeting of the Society for Medical Decision Making. Abstract.
20. J. Chhatwal*, **O. Alagoz**, and E. S. Burnside (2008), "A Computational Model to Calculate an Optimal Threshold for Biopsy or Short Interval Imaging Follow-Up Based on Patient Characteristics," Proceedings of the 94th Annual Meeting of Radiology Society of North America. Abstract.
21. T. Ayer*, J. Chhatwal*, **O. Alagoz**, E. S. Burnside (2008), "Comparison of Artificial Neural Network and Logistic Regression Model for Breast Cancer Risk Prediction," Proceedings of the 94th Annual Meeting of Radiology Society of North America. Abstract.
22. D. Ge, A. Krishnamurty, **O. Alagoz** (2009), Optimal Release Policy for Kanban Control Systems with Imperfect Advance Demand Information," Proceedings of the Manufacturing and Service Operations Management Society 2009 Conference. Abstract.
23. N. Batina*, **O. Alagoz**, A. Trentham-Dietz, M. Rosenberg, R. Gangnon, and D. Fryback (2009), "Using Computer Simulation to Investigate Racial Disparities in the Natural History of Breast Cancer," Proceedings of the 31st Annual Meeting of the Society for Medical Decision Making. Abstract.
24. M. Ayvaci *, **O. Alagoz**, J. Chhatwal*, E.S. Burnside, and E. Sickles (2009), "Superior Performance of Bayesian Networks in Predicting the Risk of Invasive versus In-Situ Breast Cancer in Older Women," Proceedings of the 31st Annual Meeting of the Society for Medical Decision Making. Abstract.
25. T. Ayer*, **O. Alagoz**, J. Chhatwal*, J. Shavlik, C. Kahn, and E.S. Burnside (2009), "Discrimination and Calibration of Artificial Neural Networks in Mammographic Diagnosis," Proceedings of the 31st Annual Meeting of the Society for Medical Decision Making. Abstract.
26. T. Ayer*, **O. Alagoz**, and N. K. Stout (2009), "A Mathematical Model to Optimize Breast Cancer Screening Policy," Proceedings of the 31st Annual Meeting of the Society for Medical Decision Making. Abstract.

WORKING PAPERS

1. M. Ayvaci*, J. Chhatwal*, **O. Alagoz**, E. Sickles, and E. S. Burnside, "Detecting In-Situ versus Invasive Cancer: A comparison of Older and Younger Women," in preparation.
2. **O. Alagoz**, J. Chhatwal*, and E. S. Burnside "Are radiologists recommending excessive follow-ups?" in preparation.
3. E. S. Burnside, J. Chhatwal*, **O. Alagoz**, "A Mathematical Model to Understand and Personalize the Risk Threshold at Which to Recommend Breast Biopsy," in preparation.
4. J. Chhatwal*, **O. Alagoz**, and E. S. Burnside, "Misuse of ROC Curves When Evaluating Performance on Unbalanced Data," in preparation.
5. T. Ayer*, **O. Alagoz**, and N. K. Stout "Optimal Screening Procedures for Early Diagnosis of Breast Cancer," in preparation.
- winner of INFORMS 2009 Annual Meeting Best Poster Award
6. F. S. Erenay*, **O. Alagoz**, and A. Said "Optimal Policies for Colorectal Cancer Screening," in preparation.
7. G. Saka, **O. Alagoz**, L. M. Maillart, A. J. Schaefer, and M. S. Roberts, "Determining the Optimal Set of Regions for Multiply Listing Patients with End-Stage Liver Disease," in preparation.

8. N. Batina*, **O. Alagoz**, A. Trentham-Dietz, M. Rosenberg, R. Gangnon, and D. Fryback, "Using Computer Simulation to Investigate Racial Disparities in the Natural History of Breast Cancer," in preparation.

FUNDED RESEARCH (Total: \$1,775,302 for Alagoz)

External Funding (Total: \$1,484,388 for Alagoz)

- **O. Alagoz** (PI)
"Optimal Design of the Liver Allocation System Considering Patient Preferences"
National Science Foundation Grant CMMI-0700094 (6/15/2007 – 5/31/2010)
Funding Level: \$149,854
- **O. Alagoz** (PI) – D. Fryback, A. Trentham-Dietz, M. Rosenberg (Co-investigators),
"Using the UWBCS to Assess Racial Disparities in Breast Cancer Incidence & Survival"
National Cancer Institute Grant R03CA130727 (7/10/2007 – 6/30/2009)
Funding Level: \$139,480
- **O. Alagoz** (PI) – E. Burnside, J. Fine (Co-investigators),
"Using Markov Decision Processes to Optimize Breast Biopsy Decision Making"
National Cancer Institute Grant R21CA129393 (2/1/2008 – 1/31/2010)
Funding Level: \$338,613
- **O. Alagoz** (Co-investigator) – A. Trentham-Dietz (PI)
"Breast Carcinoma in situ: Predicting Risk and Outcomes" PI: A. Trentham-Dietz
National Cancer Institute Grant R01CA67264 (12/1/2008 – 11/30/2013)
Funding Level: \$1,858,120 (Alagoz portion: \$314,302)
- **O. Alagoz** (Director of the Simulation Center, Community Academic Partnerships Core of UW-ICTR),
"Institute for Clinical and Translational Research" (PI: Drezner)
NIH/NCRR Grant 1UL1 RR02511 (PI: Drezner) (9/17/2007-5/31/2012)
Funding Level: \$25,400,000 (Alagoz portion: \$112,589)
- **O. Alagoz** (PI)
"CAREER: Optimizing Disease Screening & Diagnosis"
National Science Foundation Grant CMMI-0844423 (9/1/2009 – 8/31/2014)
Funding Level: \$430,000

Other Funding (Total: \$290,464 for Alagoz)

- **O. Alagoz** (Director of the Simulation Center, Community Academic Partnerships Core of UW-ICTR),
"UW-Institute for Clinical and Translational Research (ICTR)"
Wisconsin Partnership for a Healthy Future - Medical Education Research Committee School of
Medicine and Public Health Grant (1/1/2007 – 3/31/2009)
Funding Level: \$6,800,000 (Alagoz portion: \$139,653)
- **O. Alagoz** (PI)
"Using MDPs to Optimize Breast Cancer Screening & Control"
Wisconsin Alumni Research Funding PRJ13AJ (7/1/2008 – 6/30/2009)

Funding Level: \$32,266

- **O. Alagoz** (Collaborator-subaccount from several grants)
“Optimizing Mammography Interpretation,” E. S. Burnside (PI)
University of Wisconsin-Madison School of Medicine and Public Health (4/1/2006 – present)
Funding level: \$118,545 (Alagoz portion)

OTHER RESEARCH ACTIVITIES

PhD Student Supervision

- Jagpreet Chhatwal (UW-Madison), graduated in 2008
Current Position: Health Economist, Merck Research Laboratories, Philadelphia, PA.
 - winner of the INFORMS 2007 Best Poster Award, winner of the 2008 Best Student Paper Competition Award of the Decision Analysis Society (DAS) of INFORMS, winner of the 2008 Best Student Paper Competition Award of the Manufacturing and Service Operations Society (MSOM) of INFORMS
 - winner of the INFORMS George B. Dantzig Dissertation 2nd place Award, 2009
- Fatih Safa Erenay (UW-Madison), August 2006-present
 - winner of the IIE 2009 Annual Meeting Best PhD Scientific Poster Award
 - winner of the INFORMS 2009 Service Science Section Best Paper Award
- Turgay Ayer (UW-Madison), August 2006-present
 - winner of the INFORMS 2009 Best Poster Award,
 - winner of the SMDM 2009 Lee B. Lusted Student Prize Award
- Gozde Cakici (UW-Madison), September 2006-present
- Nataliya Batina (UW-Madison), August 2007-present
- Mehmet Ayvaci (UW-Madison), August 2008-present
- James Codella (UW-Madison), August 2009-present
- Evonne Liu (UW-Madison)-currently enrolled in the masters program, January 2009-present
- Peter Reaidi (UW-Madison)-currently enrolled in the masters program, August 2009-present

Doctoral Committee Member

- Nan Chen (UW-Madison), September 2009 - present
- Weiwei Chen (UW-Madison), May 2009 - present
- Tao Wu (UW-Madison), May 2009 - present
- Naraphorn Haphuriwat (UW-Madison), September 2008- present
- Li Zheng (UW-Madison), September 2008- present
- Liang Pi (UW-Madison), graduated in 2009
- Sherif A. Tawfik (UW-Madison), graduated in 2009
- Hao Howard Zhang (UW-Madison), graduated in 2008
- Gorkem Saka (University of Pittsburgh), defended in 2008
- Jun Zhuang (UW-Madison), graduated in 2008

- Burhaneddin Sandikci (University of Pittsburgh), graduated in 2008
- Kuang-Yi Wen (UW-Madison), graduated in 2006
- Hoksung Yau (UW-Madison), graduated in 2006

TEACHING EXPERIENCE

Instructor, August 2005 - present, Department of Industrial and Systems Engineering, University of Wisconsin-Madison.

- (ISyE 691) Decision Making in Health Care, (ISyE 313) Engineering Economic Analysis, (ISyE 723) Dynamic Programming and Associated Topics, (ISyE 417) Introduction to Health Systems Engineering, (ISyE 816) Stochastic Models in Health Care

Instructor, August 2004 - June 2005, Weatherhead School of Management, Case Western Reserve University.

- (OPRE 425A) Probability Applications, (OPRE 425B) Probability II, (OPRE 402) Stochastic Models, (OPRE 432A) Simulation Models with Applications, (OPRE 432B) Simulation Design, (OPRE 412B) Theory of Nonlinear Programming

Instructor, April 2004 - July 2004, Joseph M Katz Graduate School of Business, University of Pittsburgh.

- (BQOM 2411) Decision Technologies in Manufacturing and Operations Management

Instructor, September 2003 – December 2003, Industrial Engineering Department, University of Pittsburgh.

- (IE 1081) Operations Research

Other Teaching

- Co-instructor and co-organizer for the short course on “Markov Decision Processes-Analytic Methods for Sequential Decisions,” Society for Medical Decision Making (SMDM) Annual Meeting (2003)
- Co-instructor and co-organizer for the short course on “Medical Decision Making with Bayesian Networks,” SMDM Annual Meeting (2008-2009)

Teaching Assistant, September 2000 – May 2002, Industrial Engineering Department, University of Pittsburgh

- (IE 2001) Operations Research, (Engr 0020) Probability & Statistics for Engineers, (IE 2025) Facility Layout and Materials Handling, (IE 1082) Probabilistic Models in Operations Research

Teaching Assistant, September 1999 - July 2000, Industrial Engineering Department, Middle East Technical University, Ankara, Turkey.

- (IE351) Operations Research -1, (IE366) Operations Research -2

INVITED SEMINARS

- (October 2009) University of Chicago, Booth School of Business
- (April 2009) Northwestern University, Department of Industrial Engineering and Management Sciences
- (October 2008) North Carolina State University, Department of Industrial and Systems Engineering
- (May 2008) University of British Columbia, Sauder School of Business
- (May 2008) University of British Columbia, Center for Health Care Management/British Columbia Cancer Agency
- (November 2007) Northwestern University, Kellogg School of Management
- (November 2007) University of Pittsburgh, Department of Industrial Engineering
- (October 2007) Arizona State University, Department of Industrial Engineering

- (April 2007) Mayo Clinic, Division of Health Care Policy & Research
- (August 2006) Mayo Clinic, Division of Health Care Policy & Research
- (January 2006) University of Wisconsin-Madison, Department of Population Health Sciences
- (February 2005) Stony Brook University, Department of Applied Mathematics and Statistics
- (February 2005) University of Arizona, Systems and Industrial Engineering Department
- (February 2005) University of Wisconsin-Madison, Department of Industrial and Systems Engineering
- (February 2005) University of South Florida, Department of Industrial and Management Systems Engineering
- (January 2005) Sabanci University, Faculty of Engineering and Natural Sciences
- (January 2005) Dartmouth College, Tucker School of Business
- (January 2005) University of Miami, School of Business
- (January 2005) Dartmouth College, Center for the Evaluative Clinical Sciences
- (December 2004) University of British Columbia, Sauder School of Business
- (December 2004) Indiana University at Bloomington, Kelley School of Business
- (December 2004) Bilkent University, Faculty of Business Administration
- (December 2004) British Columbia Transplant Society, Vancouver, Canada.
- (November 2004) Case Western Reserve University/MetroHealth Medical Center, Center for Health Care Research and Policy
- (September 2004) Case Western Reserve University, Weatherhead School of Management
- (March 2004) Carnegie Mellon University, Tepper School of Business
- (December 2003) Clemson University, Department of Industrial Engineering
- (October 2003) University of Pittsburgh, School of Medicine, Center for Research on Health Care
- (October 2002) University of Pittsburgh, School of Medicine, Center for Research on Health Care

CONFERENCE PRESENTATIONS (leading author is the presenter)

Invited/Refereed Presentations

1. "Determining the Optimal Timing of Living Donor Liver Transplantation Using a Markov Decision Process (MDP) Model," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, 24th Annual Meeting of the Society for Medical Decision Making (SMDM), Baltimore, MD, USA, October 20-23, 2002.
2. "Predicting the Future Health Status of the Liver Disease Patients Using Empiric Stochastic Models," **O. Alagoz**, C. L. Bryce, J. Chang, A. J. Schaefer, D. C. Angus, M. S. Roberts, 24th Annual Meeting of the SMDM, Baltimore, MD, USA, October 20-23, 2002.
3. "A Hybrid Approach to Multistage Stochastic Optimization," A. J. Schaefer, **O. Alagoz**, M. D. Bailey, B. A. Norman and S. M. Shechter, INFORMS San Jose, CA, USA, November 17-20, 2002.
4. "Optimal Timing of Living-Donor Liver Transplants: A Markov Decision Process Model Approach," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, INFORMS San Jose, CA, USA, November 17-20, 2002.

5. "Creating Aisle Structures for Facility Layouts," B. A. Norman, **O. Alagoz** and A. E. Smith, 11th Annual Industrial Engineering Research Conference (IERC), Orlando, FL, USA, May 19-21, 2002.
6. "Modeling the Progression of Liver Disease over Time: A comparison of level and direction-based algorithms," C. L. Bryce, **O. Alagoz**, A. J. Schaefer and M. S. Roberts, 25th Annual Meeting of the SMDM, Chicago, IL, USA, October 18-22, 2003.
7. "Optimal Organ Allocation Policy: A Biologically-based Simulation Model," M. S. Roberts, C. L. Bryce, A.J. Schaefer, S. M. Shechter, **O. Alagoz**, D. C. Angus, 25th Annual Meeting of the SMDM, Chicago, IL, USA, October 18-22, 2003.
8. "Structured Policies for the Optimal Timing of a Living-Donor Transplant," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, INFORMS Atlanta, GA, USA, October 19-22, 2003.
9. "Stochastic Programs with Binary First Stage: A Regularized Decomposition Approach," **O. Alagoz**, A. J. Schaefer and J. C. Smith, INFORMS Atlanta, GA, USA, October 19-22, 2003.
10. "Different Approaches to Modeling the Progression of End-Stage Liver Disease," **O. Alagoz**, M. S. Roberts, C. L. Bryce, A. J. Schaefer, J. Chang and D. C. Angus, INFORMS Atlanta, GA, USA, October 19-22, 2003.
11. "When to Accept a Living-Donor Liver," **O. Alagoz**, A. J. Schaefer, L. M. Maillart and M. S. Roberts, 13th Annual IERC, Houston, TX, USA, May 15-19, 2004.
12. "When to Accept a Cadaveric Liver Offer for Transplantation? A Markov Decision Process (MDP) Model Approach," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, 26th Annual Meeting of the SMDM, Atlanta, GA, USA, October 17-20, 2004.
13. "Determining the Acceptance of Cadaveric Livers for Patients that have an Available Living Donor," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, INFORMS Denver, CO, USA, October 24-27, 2004.
14. "Determining the Acceptance of Cadaveric Livers Using an Implicit Model of the Waiting List," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, INFORMS Denver, CO, USA, October 24-27, 2004.
15. "Determining the Optimal Set of Regions for Multiply Listing Patients with End-Stage Liver Disease," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, INFORMS San Francisco, CA, USA, November 13-16, 2005.
16. "Optimal Policies for the Acceptance of Living- and Cadaveric-Donor Livers," **O. Alagoz**, INFORMS San Francisco, CA, USA, November 13-16, 2005.
17. "Optimal Cadaveric Liver Acceptance with an Explicit Model of the Waiting List," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts, and A. J. Schaefer, INFORMS San Francisco, CA, USA, November 13-16, 2005.
18. "Choosing Between Cadaveric and Living-Donor Livers: A Markov Decision Process (MDP) Model Approach," **O. Alagoz**, L. M. Maillart, A. J. Schaefer, and M. S. Roberts, 27th Annual Meeting of the SMDM, San Francisco, CA, USA, October 21-24, 2005.
19. "Modeling the waiting list explicitly to make optimal decisions in liver transplantation," B. Sandikci, **O. Alagoz**, L. M. Maillart, A. J. Schaefer, and M.S. Roberts. INFORMS Optimization Society Conference, San Antonio, TX, USA, February 3-5, 2006.

20. "Using the Waiting List Information to Optimize the Timing of Liver Transplantation," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts and A. J. Schaefer, 15th Annual IERC, Orlando, FL, USA, May 20-24, 2006.
21. "Bayesian Network Versus Logistic Regression Model for Computer Aided Diagnosis of Breast Cancer," J. Chhatwal*, **O. Alagoz**, C.E. Kahn, E.S. Burnside, 28th Annual Meeting of the SMDM, Boston, MA, USA, October 15-18, 2006.
22. "Using the Waiting List Information to Optimize the Timing of Liver Transplantation," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts and A. J. Schaefer, 28th Annual Meeting of the SMDM, Boston, MA, USA, October 15-18, 2006.
23. "Modeling the Patient Perspective on Liver Acceptance Using an Explicit Model of the Waiting List," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts and A. J. Schaefer, INFORMS Pittsburgh, PA, USA, November 5-8, 2006.
24. "A Logistic Regression Model to Aid Breast Cancer Diagnosis Based on the National Mammography Database Format," J. Chhatwal*, **O. Alagoz**, C.E. Kahn, E.S. Burnside, 92nd Annual Meeting of Radiology Society of North America, Chicago, IL, USA, November 26-December 1, 2006.
25. "Markov Decision Processes Applications in Health Care," **O. Alagoz**, INFORMS Midwest Regional Conference, Northwestern University, IL, USA, August 24-25, 2007.
26. "Optimal Timing of Biopsy in Breast Cancer Diagnosis: A Markov Decision Process Approach," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, INFORMS Midwest Regional Conference, Northwestern University, IL, USA, August 24-25, 2007.
27. "Artificial Neural Networks in Prediction of the Risk of Breast Cancer," T. Ayer*, **O. Alagoz**, E.S. Burnside, J. Chhatwal*, C. E. Kahn, INFORMS Midwest Regional Conference, Northwestern University, IL, USA, August 24-25, 2007.
28. "When to Biopsy in Breast Cancer Diagnosis? A Quantitative Model Using Markov Decision Processes," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, 29th Annual Meeting of the SMDM, Pittsburgh, PA, USA, October 20-24, 2007.
29. "Receiver Operating Characteristic (ROC) Curves versus Precision-Recall (PR) Curves in Models Evaluated with Unbalanced Data," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, 29th Annual Meeting of the SMDM, Pittsburgh, PA, USA, October 20-24, 2007.
30. "Estimating the Price of Privacy in Liver Transplantation," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts, and A. J. Schaefer (2007), 29th Annual Meeting of the SMDM, Pittsburgh, PA, USA, October 20-24, 2007.
31. "Estimating the Patient's Price of Privacy in Liver Transplantation," B. Sandikci, **O. Alagoz**, L. M. Maillart, M. S. Roberts and A. J. Schaefer, INFORMS Seattle, WA, USA, November 4-7, 2007.
32. "A Markov Decision Process Model for Optimal Timing of Biopsy in Breast Cancer Diagnosis," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, INFORMS Seattle, WA, USA, November 4-7, 2007.
33. "Optimizing Liver Allocation System Incorporating Patients' Choices and Disease Evolution," F. S. Erenay*, M. Akan, **O. Alagoz**, B. Ata, INFORMS Seattle, WA, USA, November 4-7, 2007.
34. "Breast Cancer Risk Prediction Using Mammography Bayesian Network," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, C. E. Kahn, INFORMS Seattle, WA, USA, November 4-7, 2007.

35. "In Which OPOs Should an End-stage Liver Disease Patient List?" G. Saka, **O. Alagoz**, L. M. Maillart, M. S. Roberts and A. J. Schaefer, INFORMS Seattle, WA, USA, November 4-7, 2007.
36. "Mammography Breast Cancer Risk Prediction Model Based on Logistic Regression," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, C. E. Kahn, INFORMS Seattle, WA, USA, November 4-7, 2007.
37. "Operations Research in Breast Cancer Diagnosis," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, INFORMS Seattle, WA, USA, November 4-7, 2007.
38. "RFID Application in the Blood Transfusion Supply Chain," **O. Alagoz**, A. Gutierrez, R. Veeramani, INFORMS Seattle, WA, USA, November 4-7, 2007.
39. "Using Artificial Neural Networks to Predict the Risk of Breast Cancer," T. Ayer*, **O. Alagoz**, E.S. Burnside, J. Chhatwal*, C. E. Kahn, INFORMS Seattle, WA, USA, November 4-7, 2007.
40. "Therapeutic Optimization Considering Medical Research and Development," S. Shechter, **O. Alagoz**, INFORMS Seattle, WA, USA, November 4-7, 2007.
41. "Calculating Mammography Performance at the Examination versus Finding Level Significantly Affects Outcome Measures," E.S. Burnside, J. Chhatwal*, K. Shinki, K. A. Shaffer, L. R. Salkowski, J. P. Fine, and **O. Alagoz**, 93rd Annual Meeting of Radiology Society of North America, Chicago, IL, USA, November 25-30, 2007.
42. "When to Biopsy Patients Based on Demographic Factors and Mammogram Findings? A MDP Approach," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, 17th Annual IERC, Vancouver, BC, Canada, May 17-21, 2008.
43. "Treatment initiation decisions while considering the medical research and development pipeline," S. M. Shechter, **O. Alagoz**, M. S. Roberts, 17th Annual IERC, Vancouver, BC, Canada, May 17-21, 2008.
44. "Optimal Policies for Breast Biopsy Decision Making," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, Manufacturing and Service Operations Management (MSOM) 2008 Conference, College Park, MD, June 5-6, 2008.
45. "Using Markov Decision Processes (MDP) to Optimize Breast Biopsy Decision Making," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, Mayo Clinic Conference on Systems Engineering and Operations Research in Health Care, Rochester, MN, September 22-23, 2008.
46. "A Bayesian Network for Predicting Invasive and In-situ Breast Cancer using Mammographic Findings," J. Chhatwal*, **O. Alagoz**, E.S. Burnside, N. Houssam, and E. Sickles, INFORMS Washington, DC, USA, October 12-15, 2008.
47. "A Dynamic Index Policy for Liver Allocation System," F. S. Erenay*, M. Akan, **O. Alagoz**, and B. Ata, INFORMS Washington, DC, USA, October 12-15, 2008.
48. "A POMDP Model for Optimizing Mammography Screening for Breast Cancer," T. Ayer* and **O. Alagoz**, INFORMS Washington, DC, USA, October 12-15, 2008.
49. "Irreversible Treatment Decisions under the Possibility of Improved Treatment Discoveries," S. M. Shechter, **O. Alagoz**, and M. S. Roberts, INFORMS Washington, DC, USA, October 12-15, 2008.
50. "Modeling Secrecy and Deception in a Multiple-period Attacker-defender Signaling Game," J. Zhuang, **O. Alagoz**, and V. Bier, INFORMS Washington, DC, USA, October 12-15, 2008.
51. "Optimizing Colorectal Cancer Screening Policy," F. S. Erenay*, **O. Alagoz**, and R. Banerjee, INFORMS Washington, DC, USA, October 12-15, 2008.

52. "Optimal Policies for Biopsy or Short Interval Imaging Follow-up Based on Patient Characteristics," J. Chhatwal*, **O. Alagoz**, and E.S. Burnside, INFORMS Washington, DC, USA, October 12-15, 2008.
53. "Optimal Breast-Biopsy Decision Making Based on Mammographic Features and Demographic Factors," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, INFORMS Washington, DC, USA, October 12-15, 2008.
54. "Using Simulation to Evaluate Colonoscopy Screening Protocols for Secondary CRC Prevention," F. S. Erenay*, **O. Alagoz**, R. Banerjee, and R. Cima, INFORMS Washington, DC, USA, October 12-15, 2008.
55. "Which Waiting Lists Should an End-stage Liver Disease Patient Join?," G. Saka, **O. Alagoz**, L. M. Maillart, M. S. Roberts, and A. J. Schaefer, INFORMS Washington, DC, USA, October 12-15, 2008.
56. "Simulation of Secondary Colorectal Cancer Under Colonoscopy Screenings," F.S. Erenay*, **O. Alagoz**, R. Banerjee, and R. Cima, 30th Annual Meeting of the SMDM, Philadelphia, PA, USA, October 18-22, 2008.
57. "Biopsy or Short Interval Follow-Up? A Markov Decision Process Model for Early Diagnosis of Breast Cancer," J. Chhatwal*, **O. Alagoz**, and E. S. Burnside, 30th Annual Meeting of the SMDM, Philadelphia, PA, USA, October 18-22, 2008.
58. "Predicting the Risk of Invasive versus In-situ Breast Cancer to Aid Clinical Management," J. Chhatwal*, **O. Alagoz**, H. G. Nassif, E. A. Sickles, C. S. Jovais, and E. S. Burnside, 30th Annual Meeting of the SMDM, Philadelphia, PA, USA, October 18-22, 2008.
59. "Comparing Artificial Neural Network Training Strategies for Breast Cancer Risk Prediction," T. Ayer*, **O. Alagoz**, J. Chhatwal*, J. Shavlik, C. Kahn, and E. S. Burnside, 30th Annual Meeting of the SMDM, Philadelphia, PA, USA, October 18-22, 2008.
60. "Optimizing Liver Allocation System Incorporating Disease Evolution and Considering Patient Preferences," F. S. Erenay*, **O. Alagoz**, M. Akan, B. Ata and A. Said, 18th Annual IERC Miami, FL, USA, May 29 – June 3, 2009.
61. "Optimizing Patient-Specific Mammography Schedule Using POMDPs," T. Ayer*, **O. Alagoz**, and N. K. Stout, CORS-INFORMS International, Toronto, ON, Canada, June 14-17, 2009.
62. "Optimal Release Policy for Kanban Control Systems with Imperfect Advance Demand Information," D. Ge, A. Krishamurty, **O. Alagoz**, Manufacturing and Service Operations Management (MSOM) 2009 Conference, Boston, MA, June 29-30, 2008.
63. "When to Recommend Biopsy to Women Undergoing Mammography Screening? A Markov Decision Process (MDP) Model," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, 23rd European Conference on Operational Research (EURO Conference) in Bonn, Germany, July 5-8, 2009.
64. "Using Markov Decision Processes (MDP) to Optimize Breast Biopsy Decision Making for Women Undergoing Mammography Screening," **O. Alagoz**, J. Chhatwal*, and E.S. Burnside, 35th International Conference on Operational Research Applied to Health Services (ORAHS) in Leuven, Belgium, July 12-17, 2009.
65. "Using POMDPs to Determine the Optimal Mammography Screening Schedule From the Patient's Perspective," T. Ayer*, **O. Alagoz**, and N.K. Stout, INFORMS San Diego, CA, USA, October 11-14, 2009.

66. "Optimizing Screening for Colorectal Cancer Prevention and Surveillance," F.S. Erenay* and **O. Alagoz**, INFORMS San Diego, CA, USA, October 11-14, 2009.
67. " Optimizing Colonoscopy Screening for Colorectal Cancer Prevention & Surveillance Using A POMDP Model," F.S. Erenay* and **O. Alagoz**, INFORMS San Diego, CA, USA, October 11-14, 2009.
68. "Optimal Management of Mammography Findings for Breast Cancer Diagnosis: Patient's Perspective," J. Chhatwal*, **O. Alagoz**, and E.S. Burnside, INFORMS San Diego, CA, USA, October 11-14, 2009.
69. "Optimal Management of Mammography Findings for Breast Cancer Diagnosis Considering Non-adherence," J. Chhatwal*, **O. Alagoz**, and E.S. Burnside, INFORMS San Diego, CA, USA, October 11-14, 2009.
70. "Operations Research for Early Diagnosis of Breast Cancer," T. Ayer*, **O. Alagoz**, E.S. Burnside, and N.K. Stout, INFORMS San Diego, CA, USA, October 11-14, 2009.
71. "Determining the Waiting Lists an End-stage Liver Disease Patient Should Join," G. Saka, **O. Alagoz**, L.M. Maillart, M.S. Roberts, and A.J. Schaefer, INFORMS San Diego, CA, USA, October 11-14, 2009.
72. " An Artificial Neural Network to Quantify Breast Cancer Risk Based on Mammography Findings," T. Ayer*, **O. Alagoz**, E.S. Burnside, J. Chhatwal*, C. Kahn, and J. Shavlik, INFORMS San Diego, CA, USA, October 11-14, 2009.
73. " Age Stratified Risk Prediction of Invasive versus In-situ Breast Cancer: A Logistic Regression Model," M. Ayvaci*, **O. Alagoz**, E.S. Burnside, J. Chhatwal*, M. Lindstrom, and E. Sickles, INFORMS San Diego, CA, USA, October 11-14, 2009.
74. " A Broader View of Designing the Liver Allocation System," F.S. Erenay*, **O. Alagoz**, M. Akan, B. Ata and A. Said, INFORMS San Diego, CA, USA, October 11-14, 2009.
75. "Using Computer Simulation to Investigate Racial Disparities in the Natural History of Breast Cancer," N. Batina*, **O. Alagoz**, A. Trentham-Dietz, M. Rosenberg, R. Gangnon, and D. Fryback, 31st Annual Meeting of the SMDM, Hollywood (Los Angeles), CA, USA, October 18-21, 2009.
76. "Superior Performance of Bayesian Networks in Predicting the Risk of Invasive versus In-Situ Breast Cancer in Older Women," M. Ayvaci *, **O. Alagoz**, J. Chhatwal*, E.S. Burnside, and E. Sickles, 31st Annual Meeting of the SMDM, Hollywood (Los Angeles), CA, USA, October 18-21, 2009.
77. " Discrimination and Calibration of Artificial Neural Networks in Mammographic Diagnosis," T. Ayer*, **O. Alagoz**, J. Chhatwal*, J. Shavlik, C. Kahn, and E.S. Burnside, 31st Annual Meeting of the SMDM, Hollywood (Los Angeles), CA, USA, October 18-21, 2009.
78. "A Mathematical Model to Optimize Breast Cancer Screening Policy," T. Ayer*, **O. Alagoz**, and N. K. Stout, 31st Annual Meeting of the SMDM, Hollywood (Los Angeles), CA, USA, October 18-21, 2009.

Contributed/Other Presentations

79. "Rescheduling under Machine Eligibility Constraints," **O. Alagoz** and M. Azizoglu, INFORMS Miami Beach, FL, USA, November 4-7, 2001.
80. "Establishing Aisle Structures in Block Layout Design," **O. Alagoz**, B. A. Norman and A. E. Smith, INFORMS Miami Beach, FL, USA, November 4-7, 2001.

81. "Organ Transplantation Decision Model Considering the Waiting List," **O. Alagoz**, L. M. Maillart and A. J. Schaefer, CUSTOM Mini Conference, Carnegie Mellon University, Pittsburgh, PA, December, 16-18, 2001.
82. "Industrial Engineering Curricula: A Comparative Analysis of Programs in Israel, Turkey, Iran and the US," **O. Alagoz**, B. Bidanda, H. Bayrak, J. Rubinovitz and S. Motavalli, EURO-INFORMS Istanbul, Turkey, July 6-10, 2003.
83. "A Decision Theoretic Approach to Optimal Timing of Living-Donor Liver Transplants," **O. Alagoz**, L. M. Maillart, A. J. Schaefer and M. S. Roberts, EURO-INFORMS Istanbul, Turkey, July 6-10, 2003.
84. "Stochastic Programs with Binary First Stage: A Regularized Decomposition Approach," **O. Alagoz**, A. J. Schaefer and J. C. Smith, EURO-INFORMS Istanbul, Turkey, July 6-10, 2003.
85. "A Discrete-Event Simulation Model of the National Liver Allocation System," **O. Alagoz**, S. M. Shechter, J. E. Kreke, C. L. Bryce, A. J. Schaefer, D. C. Angus and M. S. Roberts, EURO-INFORMS Istanbul, Turkey, July 6-10, 2003.
86. "Parallel Machine Rescheduling with Machine Disruptions," **O. Alagoz** and M. Azizoglu, INFORMS Atlanta, GA, USA, October 19-22, 2003.
87. "Computational Techniques to Improve the Early Diagnosis of Breast Cancer," E. S. Burnside, J. Chhatwal*, **O. Alagoz**, D. H. Gustafson, C. D. Page, Q. Pei, J. Davis, 1st Annual UWCCC Research Retreat, Madison, WI, January 20, 2007.
88. "Computational Techniques to Improve the Early Diagnosis of Breast Cancer," E. S. Burnside, **O. Alagoz**, D. H. Gustafson, C. D. Page, J. Chhatwal*, T. Ayer*, J. Liu, K. E. Witte, 2nd Annual UWCCC Research Retreat, Madison, WI, February 2, 2008.
89. "Optimal Release Policies for Kanban Control Systems with Advance Demand Information," D. Ge, **O. Alagoz**, and A. Krishnamurty, INFORMS Washington, DC, USA, October 12-15, 2008.
90. "Computational Techniques to Improve the Early Diagnosis of Breast Cancer," E. S. Burnside, J. Chhatwal*, K. E. Witte, J. Liu, T. Ayer*, **O. Alagoz**, C. D. Page, D. H. Gustafson, 3rd Annual UWCCC Research Retreat, Madison, WI, January 24, 2009.

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- Society for Medical Decision Making (SMDM)
 - Member, Discrete-event System Simulation Interest Group (2002-present)
 - Referee for SMDM Annual Meeting (2005-2009)
- Institute of Industrial Engineers (IIE)
 - Member, Operations Research Division (2003-present)
 - Track Chair (Health and Service Systems, IERC 2009 Annual Meeting)
 - Reviewer (2006,2008,2009)
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 - Equity and Diversity Committee (2006-present)
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