

FIKRET KORHAN TURAN

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A. EDUCATION

- **Ph.D.**, Industrial Engineering, University of Pittsburgh, Pittsburgh, PA (2007-2010)
- **M.Sc.**, Industrial Engineering, University of Pittsburgh, Pittsburgh, PA (2005-2007)
- **Exchange Program**, Industrial and Manufacturing Systems Engineering, Iowa State University, Ames, IA (2003-2004)
- **B.Sc.**, Industrial Engineering, Bogazici University, Istanbul, Turkey (1999-2005)

B. EMPLOYMENT

- **Assistant Professor**, Department of Industrial Engineering, Istanbul Kemerburgaz University, Istanbul, Turkey (2011-Present)
- **Researcher**, ESMT European School of Management and Technology, Berlin, Germany (2010-2011)
- **Graduate Student Researcher**, Department of Industrial Engineering, University of Pittsburgh, Pittsburgh, PA (2005-2010)
- **Business Analyst**, Service and Product Development Department, TURKCELL Communication Services Company, Istanbul, Turkey (2004-2005)

C. RESEARCH INTERESTS

- **Areas of Expertise:** Multicriteria decision making and optimization, stochastic programming, network optimization, system dynamics and simulation, and applied statistics
- **Research Topics:** Engineering and technology management, sustainable operations management, and organizational sustainability
- **Application Industries:** Local government, energy, construction, automotive, and higher education

D. JOURNAL ARTICLES

1. **Turan, F. K.**, Cetinkaya, S. and Ustun, C., "A Methodological Framework to Analyze Stakeholder Preferences and Propose Strategic Pathways for a Sustainable University," forthcoming in *Higher Education*.
2. **Turan, F. K.** and Needy, K. L., 2013, "A Quantitative Decision Model towards Maximizing Organizational Sustainability," *Engineering Management Journal*, 25(1), pp. 3-18.
3. **Turan, F. K.**, 2011, "Towards a Sustainable City: Improving the Sustainability of Cranberry Township," *International Journal of Multicriteria Decision Making*, 1(3), pp. 298-320.

E. REFEREED CONFERENCE PROCEEDINGS

1. Tuzuner, A., **Turan, F. K.** and Goren, S., 2014, "Mitigation of Wind Farm Output Variability via Geographic Dispersion and Turbine Diversification: A Mean-Variance Economic Model," 14th

International Association for Energy Economics (IAEE) European Energy Conference, Rome, Italy, Oct 28-31.

2. **Turan, F. K.**, Tuzuner, A. and Goren, S., 2012, "Modeling Electric Mobility in Germany: A Policy Analysis Perspective," *International Conference of Industrial Engineering and Operations Management (IEOM)*, Istanbul, Turkey, Jul 3-6.
3. Ries, R., Needy, K. L., Bansal, A. and **Turan, F. K.**, 2010, "Quality Management Systems in the Capital Facilities Delivery Industry: Analysis of Best Practices in Leadership and Third-Party Certification," *Construction Research Congress (CRC)*, Banff, AB, Canada, May 8-10.
4. **Turan, F. K.**, Scala, N. M., Needy, K. L. and Besterfield-Sacre, M. E., 2009, "An Analytic Network Process (ANP) Approach to the Project Portfolio Management for Organizational Sustainability," *Institute of Industrial Engineers (IIE) Annual Conference and Expo*, Miami, FL, May 30-Jun 3.
5. **Turan, F. K.**, Scala, N. M., Kamrani, A. and Needy, K. L., 2008, "Organizational Sustainability: A New Project Portfolio Management Approach that Integrates Financial and Non-Financial Performance Measures," *Institute of Industrial Engineers (IIE) Annual Conference and Expo*, Vancouver, BC, Canada, May 17-21.
6. **Turan, F. K.**, Gibb, S. E., Needy, K. L. and Carnes, S. L., 2007, "Sustainable Water Usage in Campinas: A Collaborative Research Effort between Countries," *American Society for Engineering Management (ASEM) International Annual Conference*, Chattanooga, TN, Nov 8-10.

F. BOOKS

1. **Turan, F. K.**, 2010, "Organizational Sustainability: A Quantitative Decision Model towards Maximizing Organizational Sustainability," *VDM Verlag*, Berlin, Germany.

G. CONFERENCE PRESENTATIONS WITHOUT PROCEEDINGS

1. **Turan, F. K.**, 2015, "Managing Stakeholder Satisfaction through Optimization for Sustainability in Higher Education: A Challenging Process," *American Society for Engineering Management (ASEM) International Annual Conference*, Indianapolis, IN, Oct 7-10.
2. **Turan, F. K.**, Cetinkaya, S. and Ustun, C., 2014, "Sustainability in Higher Education: A Statistical Analysis of Stakeholder Needs for Group Decision," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, San Francisco, CA, Nov 9-12.
3. **Turan, F. K.**, Cetinkaya, S. and Ustun, C., 2013, "Participatory Management in Higher Education for Organizational Sustainability: Istanbul Kemerburgaz University Case Study," *26th European Conference on Operational Research (EURO-INFORMS Joint International Meeting)*, Rome, Italy, Jul 1-4.
4. **Turan, F. K.** and Tuzuner, A., 2013, "Reducing CO₂ Emissions from Road Transport in Germany: A Simulation-Optimization Based Hybrid Decision Model," *International Institute of Industrial Engineers Conference (IIE-YAEM Joint International Meeting)*, Istanbul, Turkey, Jun 26-28.
5. Tuzuner, A. and **Turan, F. K.**, 2013, "A Bi-Criteria Model of Optimal Wind Turbine Selection and Siting for a Large Integrated Wind Farm System," *International Institute of Industrial Engineers Conference (IIE-YAEM Joint International Meeting)*, Istanbul, Turkey, Jun 26-28.
6. Tuzuner, A., **Turan F. K.** and Goren, S., 2013, "A Mean-Variance Model of Integrated Wind Farm Site and Turbine Portfolio Selection," *Institute of Industrial Engineers (IIE) Annual Conference and Expo*, San Juan, Puerto Rico, May 18-22.
7. Tuzuner, A., **Turan F. K.** and Goren, S., 2011, "A Mean-Variance Model of Optimal Wind Turbine Portfolio Selection to Mitigate Wind Power Variability," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, Charlotte, NC, Nov 13-16.
8. **Turan, F. K.**, Goren, S. and Tuzuner, A., 2011, "The Electric Vehicles and Development of an Optimal Strategy for German Car Makers," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, Charlotte, NC, Nov 13-16.

9. **Turan, F. K.**, 2011, "A Multi-Stage Stochastic Linear Program Developed as a Decision Support Tool for Organizational Sustainability," *3rd Annual Conference of Alliance for Research on Corporate Sustainability (ARCS) (Joint with 11th Annual Conference of Strategy and the Business Environment)*, Philadelphia, PA, May 9-11.
10. Weinmann, J., Massiani, J., **Turan, F. K.**, Holtermann M., Gohs, A. and Radeke, J., 2010, "Modeling the Market Diffusion of Electric Vehicles into German Car Market," *9th Conference on Applied Infrastructure Research (INFRADAY)*, Berlin, Germany, Oct 9.
11. **Turan, F. K.**, 2009, "A Quantitative Approach towards Sustainable Organizations," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, San Diego, CA, Oct 12. (Poster presentation)
12. **Turan, F. K.**, Needy, K. L. and Besterfield-Sacre, M. E., 2009, "Stakeholder Integration into Project Portfolio Management for Organizational Sustainability," *Engineering Sustainability Conference (held by the University of Pittsburgh, Mascaro Center for Sustainable Innovation)*, Pittsburgh, PA, Apr 19. (Poster presentation)
13. **Turan, F. K.**, Needy, K. L. and Besterfield-Sacre, M. E., 2008, "An Optimization Model to Improve Organizational Sustainability," *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, Washington, D.C., Oct 12.
14. **Turan, F. K.** and Needy, K. L., 2008, "Integration of Financial and Non-Financial Performance Measures into the Managerial Decision Making Process," *Student Industrial Ecology Conference (SIEC)*, Pittsburgh, PA, Apr 12.
15. **Turan, F. K.** and Needy, K. L., 2007, "Sustainable Water Usage in Campinas: A Collaborative Research Effort between Countries," *Institute of Industrial Engineers (IIE) Annual Conference and Expo*, Nashville, TN, May 20.

H. SEMINAR TALKS

- "Sustainable University: What does Kemerburgaz Family Think?" **Istanbul Kemerburgaz University**, Science, Technology and Society Seminar Series, Dec 20, 2013.
- "Balancing the Triple Bottom Line: A Quantitative Decision Model towards Maximizing Organizational Sustainability"
 - **Istanbul Kemerburgaz University**, Science, Technology and Society Seminar Series, Apr 15, 2011.
 - **Sabanci University**, Department of Manufacturing Systems and Industrial Engineering, Mar 30, 2011.
 - **Middle East Technical University (METU)**, Department of Industrial Engineering, Mar 4, 2011.
 - **Bogazici University**, Department of Industrial Engineering, Feb 25, 2011.

I. COURSES TAUGHT

Instructor, Istanbul Kemerburgaz University, Istanbul, Turkey

- Supply Chain Management (Undergraduate: Spring 2015 and Spring 2016)
 - Average teaching evaluation: 4.62/5.00
- Operations Research I (Undergraduate: Fall 2013, Fall 2014 and Fall 2015)
 - Average teaching evaluation: 4.33/5.00
- Operations Research II (Undergraduate: Spring 2014, Spring 2015 and Spring 2016)
 - Average teaching evaluation: 4.09/5.00
- System Simulation (Undergraduate: Fall 2014 and Fall 2015)
 - Average teaching evaluation: 4.47/5.00
- System Simulation (Graduate: Spring 2012 and Spring 2014)
 - Average teaching evaluation: 4.03/5.00

- Decision Analysis Models (Graduate: Fall 2012 and Fall 2013)
 - Average teaching evaluation: 4.74/5.00

Teaching Assistant, University of Pittsburgh, Pittsburgh, PA

- Engineering Management (Undergraduate: Spring 2008 and Spring 2009)
- Therapeutic Optimization (Graduate: Spring 2006)
- Probabilistic Methods in Operations Research (Undergraduate: Spring 2006)
- Probability and Statistics for Engineers (Undergraduate: Fall 2005, Fall 2006 and Summer 2008)

J. FUNDED RESEARCH PROJECTS

1. Goren, S. and **Turan, F. K.** (Researcher), Generating Robust and/or Stable Schedules for Various Shop Floor Settings Subject to Processing Time Variability and Random Machine Breakdowns, funded by the **Scientific and Technological Research Council of Turkey (TUBITAK)**, (\$71,702), Sep 2013-Sep 2016.
2. Tuzuner, A., Goren, S., **Turan, F. K.** (Researcher), Cifter, A. and Yumurtaci, Z., Modeling the Macro-Spatial Statistical Distribution of Wind Speed and Stochastic Optimization of Wind Farms with Different Wind Turbines Using Mean Generated Power and Variance Criteria, funded by the **Scientific and Technological Research Council of Turkey (TUBITAK)**, (\$102,056), Sep 2013-Sep 2015.
3. **Turan, F. K.** (Principle Investigator), Cetinkaya, S., Goren, S. and Ustun, C., Optimizing Stakeholder Satisfaction with a Multi-Objective Stochastic Goal Program Using Mean-Variance Portfolio Approach, funded by **Istanbul Kemerburgaz University**, (\$4,303), Sep 2012-Sep 2013.
4. **Turan, F. K.** (Principal Investigator), Tuzuner, A. and Goren, S., Carbon Taxes and Electric Vehicles: Development of an Optimal Strategy for German Car Makers, funded by **Istanbul Kemerburgaz University**, (\$1,817), Sep 2011-Sep 2012.
5. Holtermann, M., Weinmann, J., Massiani, J., **Turan, F. K.** (Researcher), Gohs, A. and Radeke, J., Market Model Electric Mobility, funded by the **German Ministry of Environment**, Mar 2010-Jan 2011.
6. Ries, R., Needy, K. L., **Turan, F. K.** (Research Assistant) and Bansal, A., A Best Practice Refreshment by Re-Examining the Quality Management Practices Used in Capital Facilities Delivery Industry, funded by the **U.S. Construction Industry Institute (CII)**, Aug 2007-Jan 2010.
7. Norman, B. and **Turan, F. K.** (Research Assistant), University of Pittsburgh Medical Center (UPMC) Sustainable Cleaning Products, funded by the **University of Pittsburgh Medical Center (UPMC)**, Jun 2007-Aug 2007.
8. Needy, K. L. and **Turan, F. K.** (Research Assistant), Water Loss in Sustainable Water Usage in Campinas and Collaboration between Countries and Cities, funded by the **University of Pittsburgh Mascaro Center for Sustainable Innovation**, Aug 2006-Aug 2007.
9. Schaefer, A., Vaia, A., Jerome, N. F., Demirci, M. C., Saka, G. and **Turan, F. K.** (Research Assistant), Medium-Term Operations Planning Model for BP Chemicals, funded by **BP Amoco Chemical Company**, May 2005-Aug 2006.

K. HONORS AND AWARDS

- Graduated with high-honor degrees from Bogazici University and the University of Pittsburgh (2005 and 2010, respectively)
- Full tuition waiver and merit-based monthly stipend throughout graduate study at the University of Pittsburgh (2005-2010)
- Ranked 121st in numerical test and 83rd in verbal test among 1.5 million people at the national university examination of Turkey, and awarded with a \$100,000 governmental scholarship to study abroad (1999)

- Fourth prize in the Scientific and Technological Research Council of Turkey (TUBITAK) Physics Olympiads for High Schools in the Mediterranean region of Turkey (1998)

L. GRADUATE STUDENT SUPERVISION

1. Kaplan, Y., 2015, "An Analytic Evaluation of Frequently Used Artificial Neural Network Algorithms Based on the Electricity Demand Forecast of Antalya Province," M.Sc. Thesis, Electrical and Computer Engineering Program, Istanbul Kemerburgaz University. (Co-advisor with Dr. Oguz Bayat)

M. PROFESSIONAL SERVICE ACTIVITIES

Reviewer (Number of reviews for journals is provided in parenthesis.)

- Journal of Innovation and Entrepreneurship (1)
- International Journal of Innovation and Technology Management (3)
- IEEE Transactions on Engineering Management (3)
- ASEM Engineering Management Journal (4)
- Turkish Journal of Electrical Engineering and Computer Sciences (1)
- Industrial Engineering and Operations Management (IEOM) Conference (2012 and 2014)
- Institute of Industrial Engineers (IIE) Annual Conference (2007, 2008 and 2009)
- The Scientific and Technological Research Council of Turkey (TUBITAK), Technology and Innovation Grant Program (TEYDEB) (2013)
- Istanbul Kemerburgaz University, Scientific Research Project (BAP) Grants (2012, 2013 and 2014)
- Fatih University, Scientific Research Project (BAP) Grants (2013)
- Book review of Bidanda, B., Sabuncuoglu, I. and Yetis, B., Industrial Engineering: Management, Tools, and Applications, CRC Press (2013)

Professional Society Membership

- International Association for Energy Economics (IAEE) (2014-Present)
- Turkish Association of Energy Economics (EED) (2014-Present)
- Operational Research Society of Turkey (YAD) (2013-Present)
- American Society for Engineering Management (ASEM) (2012-Present)
- Alliance for Research on Corporate Sustainability (ARCS) (2010-Present)
- Institute for Operations Research and the Management Sciences (INFORMS) (2006-Present)
- Institute of Industrial Engineers (IIE) (2006-Present)

University Service Activities

- Vice-Dean of School of Engineering and Architecture, Istanbul Kemerburgaz University (2015-Present)
- Member of Incubation Center Advisory Committee, Istanbul Kemerburgaz University (2015-Present)
- Member of International Student Applications Evaluation Committee, Istanbul Kemerburgaz University (2015-Present)
- Elected member of School of Engineering and Architecture Faculty Board, Istanbul Kemerburgaz University (2011-2015)
- Coordinator of Science, Technology and Society Seminar Series, Istanbul Kemerburgaz University (2011-Present)
- Coordinator of Erasmus exchange program, Istanbul Kemerburgaz University, Department of Industrial Engineering (2011-2015)

N. REFERENCES

Available upon request.