

# CURRICULUM VITAE

## Akiner Tuzuner

### Business Address

Istanbul Kemerburgaz  
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### Home Address

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## EDUCATION

- Ph.D. Industrial Engineering** **Purdue University**, West Lafayette, IN 2010  
Thesis Title: A Stochastic Equilibrium Model of the World Crude Oil Market  
Co-Advisors: Paul V. Preckel and Thomas L. Morin
- M.S. Industrial Engineering**, **Purdue University**, West Lafayette, IN 2002  
Thesis Title: A Spatial-Gaming Model of Oligopoly Competition in Electricity  
Markets with Multiple Nodal Consumers  
Advisor: Thomas L. Morin
- M.S. Economics**, August 2000 (Non-thesis) **Purdue University**, West Lafayette, IN 2000
- B.S. Industrial Engineering (Honors)**, **Bilkent University**, Ankara, Turkey 1998

## EMPLOYMENT

- 4/11 - Department Chair, Department of Industrial Engineering, Istanbul Kemerburgaz University.
- 4/11 - Assistant Professor, Department of Industrial Engineering, Istanbul Kemerburgaz University.
- 8/06 – 8/08 Graduate Research Assistant, State Utility Forecasting Group, Energy Center, Purdue University.
- 8/05 – 5/06 Graduate Lecturer, Department of Industrial Technology, Purdue University.
- 5/05 – 8/05 Research Assistant, Department of Industrial Engineering, Purdue University.
- 8/99 – 5/05 Teaching Assistant, Department of Industrial Engineering, Purdue University.
- 1/99 – 8/99 Research Assistant, Department of Economics, Purdue University.
- 8/98 – 1/99 Teaching Assistant, Department of Economics, Purdue University.
- 6/97 – 7/97 Summer Intern, State Institute of Statistics, Prime Ministry of Turkey, Ankara, Turkey.
- 6/96 – 7/96 Summer Intern, Arcelik A.S. Dishwasher Plant, Istanbul, Turkey.

## TEACHING EXPERIENCE

### Courses Taught

#### Kemerburgaz University

- ECE 571 – Engineering Economics and Introduction to Financial Engineering (Graduate School of Science, Fall ‘12)
- ECE 512 – Optimization Methods II (Graduate School of Science, Spring ’12, Course Evaluations Score: 4.49/5)
- MATH 104 – Matematik II (Jewelry Design Department, Spring ’12, Course Evaluations Score: 3.58/5)
- ECE 511 – Optimization Methods I (Graduate School of Science, Fall ’11, Course Evaluations Score: 4.65/5)

## **Purdue University**

IT 450 – Production Cost Analysis (Industrial Technology Department, Fall '05 and Spring '06)

### **Courses Served as TA (Purdue University)**

IE 690D – Intermediate Financial Engineering (Spring '05)

IE 590A – Financial Engineering (Spring '02, Spring '03, Spring '04, Fall '04)

IE 545 – Engineering Economics (Fall '03, Fall '04)

IE 537 – Discrete Optimization Models and Algorithms (Spring '00)

IE 535 – Linear Programming (Fall '99)

IE 335 – Operations Research - Optimization (Fall '00, Spring '01, Fall '01)

IE 343 – Engineering Economics (Summer '00, Summer '01, Summer '02, Fall '02, Summer '03, Summer '04)

ECON 210 – Principles of Economics (Fall '98)

### **GRADUATE COMMITTEE SERVICE**

Member, Master's Advisory Committee for Y. Kaplan (exp. graduation June '12)

### **RESEARCH GRANTS RECEIVED**

2013 “Developing a Macro-Level Multi-Criteria Optimization Model of Wind Farm Integration,” Istanbul Kemerburgaz University, ₺8,500

2013 “Design and Implementation of a Survey for the Feasibility Study for a Technopark,” Istanbul Kemerburgaz University (Principle Investigator O. Bayat), ₺5,000

### **SERVICE**

#### **Departmental/University Committees**

Graduate School of Science Faculty Executive Board, Apr. 2011 –

School of Engineering and Architecture Faculty Board, Member, Apr. 2011 –

School of Engineering and Architecture Faculty Executive Board, Member, Apr. 2011 –

#### **Public/Government Committees**

Small and Medium-Sized Enterprises Development Organization (Turkey), Istanbul Halic Service Directorate Project Evaluation Committee, Member, Jan. 2012 –

#### **Conference Committees**

Third Annual Conference of the European Decision Sciences Institute (June 2012) Scientific Committee, Member

#### **Student Organizations/Clubs**

Istanbul Kemerburgaz University Industrial Engineering Club, Faculty Advisor, Oct. 2011 –

#### **Reviewer**

European Journal of Operations Research (1)

IIE Annual Conference (1)

## **Other**

Purdue Turkish Student Association, Social Director, 2004-2005  
Bilkent University Student Government, (elected) Student Senator, 1996-1997  
Bilkent University Yearbook Committee, Student Member, 1996-1997

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Institute of Industrial Engineers, Member (2013– )  
International Association of Energy Economics, Member (2012– )  
Enerji Ekonomisi Derneği (Turkish Association of Energy Economics), Member (2012– )  
Institute for Operations Research and the Management Sciences, Member (2007– )  
Institute of Electrical and Electronics Engineers, Member (2006– )  
INFORMS Purdue Student Chapter, Vice President (2004-2005)  
Purdue Quantitative Finance Club, Founding Vice President (for alumni liaison) (2004-2005)  
Bilkent Operations Research Student Club, Officer (1995-1996)

## **HONORS AND AWARDS**

Purdue finalist in the Dimitris N. Chorafas Foundation’s “Best Doctoral Dissertation Proposal” competition (2005)  
Invited Member of Omega-Rho (International Operation Research Honor Society of INFORMS) (2005)  
Invited Member of Alpha-Pi-Mu (National Industrial Engineering Honor Society) (2005)  
Bilkent University full academic scholarship for undergraduate study (1994-1998)  
Turkish Prime Minister’s full scholarship for undergraduate study abroad for outstanding score in the national university entrance test (declined the award) (1994)  
Ranked 163rd in the nation (among roughly 1.5 million) in the 1994 Turkish national university entrance exam

## **PUBLICATIONS**

A. Tuzuner, F. K. Turan, and S. Goren, “Modeling Electric Mobility in Germany: A Policy Analysis Perspective”, in Proceedings of the 2012 International Conference on Industrial Engineering and Operations Management, Istanbul, Turkey, July 3 – 6, 2012.

Z. Yu and A. Tuzuner, “Fractional Weibull Wind Speed Modeling For Wind Power Production Estimation”, in Proceedings of IEEE Power Engineering Society 2009 General Meeting, Calgary, Alberta, Canada, July 26-30, 2009.

A. Tuzuner and Z. Yu, “A Theoretical Analysis on Parameter Estimation for the Weibull Wind Speed Distribution,” in Proceedings of IEEE Power Engineering Society 2008 General Meeting, Pittsburgh, Pennsylvania, July 20-24, 2008.

Z. Yu and A. Tuzuner, “Wind Speed Modeling and Energy Production Simulation with Weibull Sampling,” in Proceedings of IEEE Power Engineering Society 2008 General Meeting, Pittsburgh, Pennsylvania, July 20-24, 2008.

A. Tuzuner and Z. Yu, “A Gaming Framework for Analyzing Market Potentials and Risks of CTL”, in Proceedings of the 2006 Annual International Pittsburgh Coal Conference (and poster presentation), Pittsburgh, Pennsylvania, September 26-28, 2006.

## **CONFERENCE PRESENTATIONS AND TALKS**

A. Tuzuner, F. K. Turan, S. Goren, “A Mean-Variance Model of Optimal Wind Turbine Portfolio Selection to Mitigate Wind Power Variability,” presented at INFORMS Annual Meeting, Charlotte, North Carolina, November 15, 2011.

F. K. Turan, S. Goren, A. Tuzuner, “The Electric Vehicles and Development of An Optimal Strategy for German Car Makers,” presented at INFORMS Annual Meeting, Charlotte, North Carolina, November 13, 2011.

A. Tuzuner, T. L. Morin, P. V. Preckel, and Z. Yu, “A Stochastic Equilibrium Model of the World Crude Oil Market,” presented at Istanbul Kemerburgaz University (Science, Technology, and Society Seminar Series), Istanbul, Turkey, April 8, 2011.

A. Tuzuner, T. L. Morin, P. V. Preckel, and Z. Yu, “A Stochastic Equilibrium Model of the World Crude Oil Market,” presented at Kadir Has University, Istanbul, Turkey, February 28, 2011.

A. Tuzuner, T. L. Morin, P. V. Preckel, and Z. Yu, “A Stochastic Equilibrium Model of the World Crude Oil Market,” presented at TOBB University of Economics and Technology, Ankara, Turkey, February 21, 2011.

A. Tuzuner, T. L. Morin, P. V. Preckel, and Z. Yu, “A Stochastic Equilibrium Model of the World Crude Oil Market,” presented at Purdue University, West Lafayette, Indiana, July 12, 2010.

A. Tuzuner, Z. Yu, P. Preckel, T. L. Morin, “A Continuous-Time Equilibrium Model of the Extended Crude Oil Market,” presented at 2007 INFORMS Midwest Regional Conference, Evanston, Illinois, August 24, 2007.

### **CONTRIBUTED REPORTS AND PRESENTATIONS**

Z. Yu, P. Preckel, F.T. Sparrow and A. Tuzuner, “Risk Assessment in Energy Resource Planning,” State Utility Forecasting Group, Energy Center at Discovery Park, Purdue University, presented to Argonne National Laboratory, Chicago, IL, September 28, 2007.

M. W. Irwin, B. H. Bowen, “Synfuel Park for NSA Crane Feasibility Study,” Center for Coal Technology Research, Purdue University, presented at the CCTR Advisory Panel Meeting, Purdue North Central, Westville, IN, June 5, 2007.

M.W. Irwin, B.H. Bowen, P.V. Preckel, Z. Yu, J. Rupp, F.H. Hieb, and M. Mastalerz, “A Feasibility Study for the Construction of a Fischer-Tropsch Liquid Fuels Production Plant with Power Co-Production at NSA Crane (Naval Support Activity Crane),” Center for Coal Technology Research Report, Energy Center, Discover Park, Purdue University, report prepared for Crane Technology Incorporated under the sponsorship of the United States Department of Labor, May 31, 2007.

Z. Yu, A. Tuzuner and P. V. Preckel, "The U.S. Coal to Clean Transportation Fuels Options: A Game Theory Assessment," invited presentation to The Energy and Transportation Panel Meeting, Detroit, MI, April 24-26, 2007.

R. L. Rardin, “Synfuel Park Feasibility Study,” Purdue Energy Modeling Research Groups, Purdue University, presented at the CCTR Advisory Panel Meeting, Hammond, IN, December 6, 2006.

### **RELEVANT SOFTWARE SKILLS**

GAMS (advanced), Mathematica (advanced), MATLAB (intermediate), LaTeX (intermediate), C (familiar).

### **LANGUAGES**

Turkish (native), English (fluent)

### **CITIZENSHIP**

Turkey (born), United States (naturalized)

## ACADEMIC REFERENCES FOR AKINER TUZUNER

1. Thomas L. Morin, Ph.D.  
Professor of Industrial Engineering, School of Industrial Engineering, Purdue University.  
  
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2. Paul V. Preckel, Ph.D.  
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Faculty Director, State Utility Forecasting Group, Energy Center, Purdue University.  
  
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3. Zuwei Yu, Ph.D.  
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(Formerly: Senior Research Associate, State Utility Forecasting Group, Energy Center, Purdue University.)  
  
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