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# Mehmet Bayram YILDIRIM

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## EDUCATION

- December 2001*      **Ph. D.:** Industrial & Systems Engineering, University of Florida, Florida  
**Dissertation Title:** Congestion Toll Pricing Models and Methods for Variable Demand Traffic Assignment Models  
**Dissertation Chair:** Donald W. Hearn  
**Committee Members:** S. Selcuk Erenyuc, Joseph P. Geunes, Panos M. Pardalos
- 1996*      **M. S.:** Industrial Engineering, Bilkent University, Ankara, Turkey  
**Master's Thesis:** Single Machine Total Weighted Tardiness Problem  
**Chair:** Selim Akturk
- 1994*      **B. S.:** Industrial Engineering, Bogazici University, Istanbul, Turkey  
**Senior Project:** Scheduling Traffic Lights in a Capacitated Junction  
**Advisor:** I. Kuban Altinel

## RESEARCH INTERESTS

- Pricing in Networks
  - Traffic Management using Toll Pricing
  - Internet Pricing
  - Telecommunication Pricing
  - Transfer Pricing in Supply Chains
- Network Optimization
- Transportation/Logistics and Supply Chain Management
- Scheduling

## EMPLOYMENT

- University of Florida**      Gainesville, FL  
*August 96 – Present*      **Instructor:** Facilities Planning & Materials Handling, Summer 2000  
   **Teaching Assistant:** Deterministic Methods of Operations Research for both on Campus and Outreach Engineering Management Programs  
   **Research Assistant:** Traffic Network Equilibrium Problem, Toll Pricing Theory
- CSX Transportation**      Internship, Operations Research Department, Jacksonville, FL  
*May 97 – August 97*      Developed A Decision Support System For Rail Car Management
- Bilkent University**      Ankara, Turkey  
*August 94 – 96*      **Research & Teaching Assistant:** Total Weighted Tardiness Problem: New Dominance Rule and its Effect on the Lower and Upper Bounds

## PUBLICATIONS

Hearn, D. W., Yildirim, M. B., Ramana, M. V. and Bai, L. H., "Computational Methods for Congestion Toll Pricing Models," *The 4th International IEEE Conference on Intelligent Transportation Systems*, **2001**.

Hearn, D. W. and Yildirim, M. B., "A Toll Pricing Framework for Traffic Assignment Problems," to appear in the Edited Volume *Current Trends in Transportation and Network Analysis, Papers in Honor of Michael Florian*, **2000**

Akturk, S. and Yildirim, M. B., "A New Lower Bounding Scheme for the Total Weighted Tardiness Problem," *Computers and Operations Research*, 25 (4), **1998**, 265–278

Akturk, S. and Yildirim, M. B., "A New Dominance Rule for the Total Weighted Tardiness Problem," *Production Planning & Control*, 10 (2), **1999**, 138–149

Yildirim, M. B., Aksen, D. and Aksu, M., "Scheduling Traffic Lights in a Capacitated Junction," *Turkish Industrial Engineering Journal*, January **1995**

## WORKING PAPERS

Yildirim, M. B. and Hearn, D. W., "Second Best Toll Pricing for Elastic Demand Networks "

Yildirim, M. B. and Hearn, D. W., "A Toll Pricing Framework for Variable Demand Traffic Assignment Problems"

Yildirim, M.B., "Equilibrium Pricing in Supply Chains"

## CONFERENCE PRESENTATIONS

"Computational Methods for Congestion Toll Pricing Models," (with D.W. Hearn and L. H. Bai) presented at INFORMS Miami, 2001

"Transfer Pricing in Spatial Networks: An Equilibrium Approach," presented at INFORMS Miami, 2001

"Toll Pricing for Variable Demand Traffic Assignment Models," (with D.W. Hearn) presented at INFORMS San Antonio, 2000

"A Comparison of Toll Pricing Methods for Traffic Assignment Models," (with D.W. Hearn) presented at ISMP Atlanta, 2000

"The Toll Pricing Theory," (with D.W. Hearn) presented at INFORMS Philadelphia, 1999

"A Decomposition Method for Congestion Toll Pricing," (with D.W. Hearn and M. V. Ramana) presented at INFORMS National Conference, Montreal, Canada, 1998

## PROFESSIONAL SERVICE

Referee, *Operations Research, Transportation Research and Journal of Global Optimization*

Webmaster, *Optima, the newsletter of the Mathematical Programming Society*

Book Review: Yildirim, M. B., review of "Locating Lines and Hyperplanes: Theory and Algorithms," by Anita Schobel, *Optimization Methods and Software*, 13, **2000**, 231-233

Department Representative, Graduate Student Council, University of Florida, 2000

Member of INFORMS, 1997– present

Member, Institute of Industrial Engineers University of Florida Chapter, 1996– present

## AWARDS & ACHIEVEMENTS

INFORMS Doctoral Colloquium, **1998**

Perfect GPA Awards, University of Florida **1996-98**

First Prize In Turkish National Industrial Engineering Conference Student Paper Competition, **1994**

Honor Degree from Bogazici University, Turkey, **1994**

Scholarships From TED, Bogazici University Alumni Association and TMKV, **1990–1994**

Ranked in the top 0.01% in the Nationwide University Admission Exam, Turkey, **1990**

## EXTRA CURRICULAR ACTIVITIES

Treasurer, Turkish Student Association, University of Florida, 1997–98

Turkish Folk Dance Player, 1996-98

## COURSES TAKEN

*August 96 – Present*     **Ph.D. Program**, Industrial & Systems Engineering, University of Florida, FL  
**Coursework:** Stochastic Processes, Nonlinear Programming, Linear Programming Extensions, Global Optimization, Simulation, Advanced Engineering Economy, Numerical Techniques, Advanced Production Planning, Database Management, System Analysis and Design.

*August 94 –96*             **Master of Science**, in Industrial Engineering, Bilkent University, Ankara, Turkey  
**Coursework:** Linear Programming, Advanced Linear Programming, Probability, Theory of Complexity, Stochastic Processes, Metric Spaces, Location Theory, Methodology of Operations Research

*September 1995*        **Summer Course** on Design of Experiments  
Dokuz Eylul University, Izmir, Turkey

*August 90-94*            **Bachelor of Science**, in Industrial Engineering, Bogazici University, Istanbul, Turkey  
**Coursework:** Programming in Pascal, Advanced Data Structures, Statistics, Graphical Data Analysis, Quality Control, System Simulation, System Dynamics, Engineering Economy, Operations Research, Fuzzy Logic, Production Planning, Computer Methods in OR, Computer Integrated Manufacturing, Dynamic Event Simulation, Mathematical Modeling, Ergonomics

## REFERENCES

### **Donald W. Hearn**

Professor & Chair, Department of Industrial and Systems Engineering, University of Florida

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### **S. Selcuk Erenguc**

Professor & Chair, Department of Decision and Information Sciences, University of Florida

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### **Joseph P. Geunes**

Assistant Professor, Department of Industrial and Systems Engineering, University of Florida

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### **Panos M. Pardalos**

Professor, Department of Industrial and Systems Engineering, University of Florida

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### **Lori Roets**

Assistant Vice President - Six Sigma, CSX Transportation

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Jacksonville, FL 32216-6177  
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