

# Masood Jabarnejad (CV)

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## EDUCATION

- **Ph.D., Industrial and Systems Engineering**

Auburn University, Auburn, AL, United States, Aug. 2015

Advisor: Dr. Jorge Valenzuela

Dissertation Title: *Operational and Investment Solutions for Dynamic Line Switching and Rating in Electrical Grid*

- **M.S., Industrial Engineering**

Middle East Technical University, Ankara, Turkey, Jun. 2010

Thesis Title: *An Improved Organization Method for Association Rules and a Basis for Comparison of Methods*

- **B.S., Industrial Engineering**

Bu-Ali Sina University, Hamadan, Iran, Feb. 2003

## RESEARCH INTERESTS

- Mathematical Programming, Large-scale Optimization, Optimization of Manufacturing and Service Systems, Smart Grids, Supply Chain Management, Data Mining

## JOURNAL PAPERS

- M. Jabarnejad, J. Valenzuela, (2016) "Optimal Investment Plan for Dynamic Thermal Rating Using Benders Decomposition", *European Journal of Operational Research*, Volume 248, Issue 3, Pages 917-929
- M. Jabarnejad, J. Wang, J. Valenzuela, (2015) "A Decomposition Approach for Solving Seasonal Transmission Switching", *IEEE Transactions on Power Systems*, Volume 30, Issue 3, Pages 1203-1211

## PAPERS IN CONFERENCE PROCEEDINGS

- M. Jabarnejad, M.C. Testik, (2009) "Grouping and Pruning Association Rules in Data Mining", 29th National Operations Research and Industrial Engineering Conference (CD-ROM), Ankara, Turkey

**EXTERNAL GRANT WRITINGS**

- Ductile Iron Pipe Research Association (DIPRA), Fall 2014, “*Life Cycle Cost Analysis for Comparison of Alternative Pipe Materials*”, 9 pages, J. Valenzuela, J. Vasconcelos, M. Jabarnejad
- National Science Foundation, Summer 2012, “*Investment strategies for electricity infrastructures to mitigate costs in the aftermath of natural disasters*”, 15 pages, J. Valenzuela, J. Wang, M. Jabarnejad

**SELECTED PRESENTATIONS****Invited**

- Integrating Dynamic Line Rating & Transmission Switching, IIE Annual Conference 2015.
- Transmission Planning for Reducing Emissions, INFORMS 2014.
- Modeling and Solutions for Seasonal Transmission Switching, INFORMS 2013.

**Contributed**

- Operations Research to Reduce the Cost of Electricity, INFORMS 2014 (Poster).

**AWARDS & HONORS**

- Outstanding International ISE Graduate Student, Auburn University
- First Place Winner, INFORMS Interactive Presentation Competition, San Francisco, CA
- Best of Industrial and Systems Engineering Award, Graduate Engineering Research Showcase, Auburn University
- Travel Grant for Doctoral Colloquium, Industrial & Systems Engineering Department, Auburn University
- Alpha Pi Mu (Industrial Engineering Honor Society)

**EMPLOYMENT HISTORY**

- Antalya Bilim University – Assistant Professor, Department of Industrial Engineering, Antalya, Turkey, 2017 to present
- Western Kentucky University – Assistant Professor, Department of Management, Bowling Green, KY, 2015 to 2017
- Auburn University – Teaching/Research Assistant/Instructor, Auburn, AL, 2011 to 2015
- Atilim University – Teaching Assistant, Ankara, Turkey, 2009
- Bahman Group Automotive Industry – Intern, Tehran, Iran, 2003

**TEACHING EXPERIENCE**

**Assistant Professor:** Antalya Bilim University

- IE212: Statistical Models
- IE341: Introduction to Optimization

- IE411: Decision Support Systems in Engineering
- IE460: Adaptive Optimization

**Assistant Professor:** Western Kentucky University

- MGT 314: Operations Management
- MGT 313: Decision Modeling

**Student Lecturer:** Auburn University

- STAT 3600: Probability & Statistics I
- INSY 3600: Engineering Economy

**Teaching Assistant:** Auburn University

- INSY 3600: Engineering Economy
- INSY 7420: Linear Programming and Network Flows

**Teaching Assistant:** Atilim University

- IE 201: Statistics
- IE 206: Cost Analysis

#### **PROFESSIONAL MEMBERSHIP**

- The Institute for Operations Research and the Management Sciences (INFORMS)
- Institute of Industrial Engineers (IIE)

#### **SERVICES**

- Journal Reviewer:
  - European Journal of Operational Research
  - IEEE Transactions on Power Systems
  - Energy Systems
  - Journal of Intelligent Manufacturing
- Session Chair, Optimization and Analysis of Smart Grids with Renewable Energy and Storage, INFORMS 2014,
- Member of INFORMS Student Chapter, Auburn University, Fall 2014 to Summer 2015
- Senator in Graduate Student Council, Auburn University, Fall 2013 to Summer 2015
- Member of Welfare & Continuous Improvement Committee, GSC, Auburn University, Fall 2013 to Summer 2015

#### **ASSISTED PROJECTS**

- Funding Agency: Argonne National Laboratory, United States  
*Research Assistant*, Auburn University, Jan. 2012 to Jan. 2014
- Funding Agency: Scientific & Technological Research Council of Turkey (TUBITAK)

*Research Assistant, Middle East Technical University, Sep. 2008 to Jun. 2010*

**SELECTED TECHNICAL SKILLS:** C/C++, VBA, MATLAB, SPSS, MINITAB, CPLEX/Gurobi/GAMS, LaTeX