

Masood Jabarnejad (CV)

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EDUCATION

- **Ph.D., Industrial and Systems Engineering**
Auburn University, Auburn, AL, Aug. 2015
Cumulative GPA: 4.0 / 4.0
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

- S. Azadiamin, G. Koksall, M. Jabarnejad, (2016) "A Novel Approach for Comparison of Association Rule Mining Algorithms based on Controlled Data, Statistical Inference, and Multiple Criteria", submitted
- 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 741-1136
- M. Jabarnejad, J. Wang, J. Valenzuela, (2014) "A Decomposition Approach for Solving Seasonal Transmission Switching", *IEEE Transactions on Power Systems*, Volume 30, Issue 3, Pages 1203-1211

WORKING PAPERS

- Emissions Reduction Using the Dynamic Line Switching and Rating
- On Formulation of Transmission Switching

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).
- Grouping and Pruning Association Rules in Data Mining, The 29th National OR and IE Conference, 2009, Bilkent University, Ankara, Turkey (Talk).

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 International 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: 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
- 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, MINTAB, CPLEX/Gurobi/GAMS, LaTeX