Ali Fattahi

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Education

- **UCLA Anderson School of Management** — Los Angeles, CA
  Ph.D. in Decisions, Operations & Technology Management; GPA: 3.92 — *Sept. 2014 – June 2019 (Expected)*
- **Koc University** — Istanbul, Turkey
  M.Sc. in Industrial Engineering; GPA: 4.00 — *Sept. 2011 – Aug. 2014*
- **Sharif University** — Tehran, Iran
  B.Sc. in Industrial Engineering; Ranking: 1st out of 66; GPA: 3.87 (18.01/20.00) — *Sept. 2007 – July 2011*

Research Interests

Parts and product portfolio in mass customization; Electricity peak load demand management; High-dimensional analytics; Large-scale optimization; Stochastic dynamic programming; Multi-objective optimization.

Published & Under Review Papers

1. Fattahi, A, Dasu, S, Ahmadi, R (2018) Mass Customization and "Forecasting Options' Penetration Rates Problem." ***Operations Research***. Accepted.
   - **Finalist**: POMS College of Supply Chain Management 2018 Best Student Paper Competition.
2. Fattahi, A, Dasu, S, Ahmadi, R (2018) The Weighted Non-Negative Least-Squares Problem with Implicitly Characterized Points. ***Operations Research***. Accepted.
3. Fattahi, A, Dasu, S, Ahmadi, R (2018) Mass Customization and Parts' Capacity Planning Problem. Major revision submitted to ***Operations Research***.
4. Fattahi, A, Dasu, S, Ahmadi, R (2018) Peak Load Energy Management by Direct Load Control Contracts. 2nd major revision submitted to ***Operations Research***.
   - **2nd Place**: POMS College of Sustainable Operations 2018 Best Student Paper Competition.
   - Totty, M (2018) A More Efficient Way to Help Utilities Share the Inconvenience of Power Outages: A model by Reza Ahmadi and Ali Fattahi could enable power companies to lower the cost of peak electricity. *UCLA Anderson Review,* January 17, 2018.
5. Rasmi, SAB, Fattahi, A, Turkay, M (2018) SASS: Slicing with Adaptive Steps Search Method for Finding All Non-Dominated Solutions of Tri-Objective Mixed-Integer Linear Programming Problems. Major revision invited to ***Annals of Operations Research***.
6. Fattahi, A, Turkay, M (2018) A One Direction Search Method to Find the Exact Nondominated Frontier of Biobjective Mixed-Binary Linear Programming Problems. ***European Journal of Operational Research***. 266(2): 415-425.
7. Fattahi, A, Turkay, M (2015) On the MILP model for the U-shaped assembly line balancing problems. ***European Journal of Operational Research***. 242(1): 343-346.
8. Fattahi, A, Turkay, M (2015) ϵ-OA for the solution of bi-objective generalized disjunctive programming problems in the synthesis of nonlinear process networks. ***Computers & Chemical Engineering***. 72: 199-209.
9. Fattahi, A, Elaoud, S, Sadeqi Azer, E, Turkay, M (2014) A novel integer programming formulation with logic cuts for the U-shaped assembly line balancing problem. ***International Journal of Production Research***. 52(5): 1318-1333.

Peer Reviewed Conference Proceedings

1. Rasmi, SAB, Fattahi, A, Turkay, M (2017) An exact algorithm to find non-dominated facets of Tri-Objective MILPs. *The 12th International Conference on Multiple Objective Programming and Goal Programming*, October 30-31, Metz, France.

Working Papers

1. Mass Customization and the End-of-Horizon Portfolio Optimization Problem.
2. Fair Implementation of Interruptible Demand Response Programs.

Awards, Fellowships & Grants

- **2nd Place**: POMS College of Sustainable Operations 2018 Best Student Paper Competition.
- **Finalist**: POMS College of Supply Chain Management 2018 Best Student Paper Competition.
- **Dissertation Year Fellowship**: UCLA Graduate Education, Sept. 2018 – June 2019.
- **Harold and Pauline Price Center for Entrepreneurship and Innovation**: $8,000; 2016 – 2017.
- **Ziman Center's Howard and Irene Levine Program**: $5,000; 2016 – 2017.
- **Morrison Center for Marketing and Data Analytics**: $5,000; 2017 – 2018.
- **Geoffrion Art's fund for applied research**: $5,500; 2015 – 2017.

Conference Presentations

- **Mass Customization and "Forecasting Options' Penetration Rates Problem."**
  - **MSOM**: July 1-3, 2018, Dallas, TX.
  - **SoCal OR/OM Day**: May 18, 2018, Los Angeles, CA.
  - **POMS**: May 4-7, 2018, Houston, TX.
- **Peak Load Energy Management by Direct Load Control Contracts.**
  - **POMS**: May 4-7, 2018, Houston, TX.
  - **INFORMS**: October 22-25, 2017, Houston, TX.
  - **MSOM**: June 20-21, 2017, Chapel Hill, NC.
  - **POMS**: May 5-8, 2017, Seattle, WA.
- **Bi-Objective Hub Location-Allocation Problem: Min. Cost and Min. CO2 Emissions.**
  - **International IIE Conference**: June 26-28, 2013, Istanbul, Turkey.
- **A Novel Integer Programming Formulation for U-Shaped Line Balancing Problems Type-1.**
  - **21st ISMP**: August 19-24, 2012, Berlin, Germany.
- **Road-Rail-Sea Hub Location-Allocation with Sustainability Considerations.**
  - **EURO 2012 (EURO xxv)**: July 8-11, 2012, Vilnius, Lithuania.

Teaching Assistant

- **UCLA Anderson School of Management** Los Angeles, CA
  - **MGMT 407 Business Analytics with Spreadsheets**: Fall 2016 – now.
  - **MGMT 410 LEC 4&5 Operations Technology Management**: Fall 2015.
- **Koc University** Istanbul, Turkey
  - **INDR470 Service Operations Analysis**: Spring 2012 – Spring 2013
  - **INDR501 Optimization Models and Algorithms**: Fall 2012.
  - **INDR201 Discrete Mathematical Structures**: Fall 2011.
- **Sharif University** Tehran, Iran
  - **Plant Layout**: Fall 2010 – Spring 2011
  - **Engineering Economics**: Fall 2010.

Work Experience

- **Research Assistant**: UCLA Anderson School of Management, Los Angeles, CA; Fall 2014 – now.
- **Research Assistant**: Koc University, Istanbul, Turkey; Fall 2011 – Summer 2014.
- **Programmer**: Developed a *Line Balancing* software for the Plant Layout Laboratory; Sharif University; Spring 2010.
- **Internship**: Construction project; Heramsaze Alborz Company, Tabriz, Iran; Summer 2010.

Technical Skills & Languages

- **Optimization/Statistics**: R, GAMS, CPLEX.
- **Programming**: Java, C++, MATLAB.
- **Languages**: English, Farsi, Azerbaijani, Turkish.