

# Mohammad Javad Feizollahi

Assistant Professor of Business Analytics

Institute for Insight  
Robinson College of Business  
Georgia State University  
(Last updated: November 9<sup>th</sup>, 2022)

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## I. CONTACT INFORMATION

ADDRESS: Robinson College of Business  
Georgia State University  
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Atlanta, GA 30303  
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WEBSITE: <http://robinson.gsu.edu/profile/m-javad-feizollahi/>

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## II. RESEARCH INTERESTS

Operations Research; Robust Optimization; Business and Legal Analytics; Decentralized and Distributed Optimization; Power System Optimization.

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## III. EDUCATION

- **PhD in Operations Research** December 2015  
**MSc in Operations Research** May 2014  
H. MILTON STEWART SCHOOL OF INDUSTRIAL AND SYSTEMS ENGINEERING  
GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GA, USA  
**Advisor:** Prof. Shabbir Ahmed
  - **MSc in Industrial Engineering** September 2007  
**BSc in Industrial Engineering** September 2005  
DEPARTMENT OF INDUSTRIAL ENGINEERING  
SHARIF UNIVERSITY OF TECHNOLOGY, TEHRAN, IRAN  
**Advisor:** Prof. Mohammad Modarres
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## IV. FELLOWSHIP AND AWARDS

- **Analytics Top Professor Award** December 2020  
GEORGIA STATE UNIVERSITY, Atlanta, GA, USA
- **\$247,745 Research Grant** (with Prof. Charlotte Alexander as PI) 2017-2019  
THE US DEPT. OF LABOR'S OFFICE OF LABOR RESEARCH AND EVALUATION (LRE)  
Research topic: "A Study of U.S. District Courts' Misclassification Decisions, 2008-2015"

- **Analytics Top Professor Award**
December 2017  
 GEORGIA STATE UNIVERSITY, Atlanta, GA, USA
  - **John Morris Fellowship.**
2011-2012  
 GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA, USA
  - **Outstanding Master of Science Graduate Award**
2007  
 SHARIF UNIVERSITY OF TECHNOLOGY, Tehran, Iran  
 First place among all Industrial Engineering M.Sc. graduates
  - **Entering M.Sc. Program as a Brilliant Talent.** (Without Entrance Exam)
2005  
 SHARIF UNIVERSITY OF TECHNOLOGY, Tehran, Iran
  - **Outstanding Bachelors of Science Graduate Award**
2005  
 SHARIF UNIVERSITY OF TECHNOLOGY, Tehran, Iran  
 First place among all Industrial Engineering B.Sc. graduates
  - **Golden Medal of National Students' Cycling Races in Iran**
2004
  - **Ranked 11<sup>th</sup> in National University Entrance Exam.** (among 150,000 applicants, Iran)
2001
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## V. WORK EXPERIENCE

### A. ACADEMIC WORK EXPERIENCE

- **Assistant Professor**
August 2016-Present  
▪ **Visiting Assistant Professor**
August 2015-July 2016  
 Institute for Insight  
 Robinson College of Business  
 Georgia State University, Atlanta, GA
- **Graduate Research/Teaching Assistant**
August 2011-July 2015  
▪ **Visiting Scholar**
August 2010-July 2011  
 H. Milton Stewart School of Industrial and Systems Engineering  
 Georgia Institute of Technology, Atlanta, GA
- **Instructor,**
2008-2010  
 Golpaygan University of Technology, University of Science & Culture  
 University of Khatam, Islamic Azad University, Iran
- **Research/Teaching Assistant**
2003-2009  
 Industrial Engineering Department  
 Sharif University of Technology, Tehran, Iran

### B. INDUSTRIAL WORK EXPERIENCE

- **Power System Optimization Consultant,** PROSUMERGRID, INC, Atlanta, GA, USA
2019-2021
- **Analytics Consultant** TRUGROUND ENVIRONMENTAL, LLC, Atlanta, GA, USA
2018
- **Project Manager** for in-house logistics and work process optimization, and simulation projects in different companies such as:
- EMERSUN INDUSTRIES COMPANY, Tehran, Iran
2010
  - MOALLEM INSURANCE COMPANY, Tehran, Iran
2010
  - IRAN KHODRO SPARE PARTS & AFTER SALES SERVICE Co., Tehran, Iran
2008-2010

- SAIPA CENTER FOR STRATEGIC STUDIES, Tehran, Iran 2008
- **Supply Chain Manager**, KAYLA DISTRIBUTION COMPANY, Tehran, Iran 2007  
Designed and implemented optimal inventory replenishment policies. Analyzed financial resources of the company and improved its productivity and efficiency.
- **Part-time Optimization and Simulation Analyst**, IRAN KHODRO COMPANY, Tehran, Iran 2006-2007  
Discrete event simulation of in-house logistics. Developed an optimal transportation model to transport finished cars to the customers.
- **Part-time Optimization and Financial Analyst**, BANK OF INDUSTRY AND MINE, Tehran, Iran 2006-2007  
Optimal resource allocation: modeling, software design and implementation. Robust optimization of the bank input/output.
- **Part-time Optimization and Financial Analyst**, BUALI INVESTMENT COMPANY, Tehran, Iran 2006  
Strategic asset allocation. Asset & liability management. Multi-period asset allocation.

## VI. PUBLICATIONS

**Google scholar profile:** <http://scholar.google.com/citations?user=cb42oUoAAAAJ&hl=en&oi=ao>

### A. REFEREED SCHOLARLY JOURNALS AND PROCEEDINGS

1. Ergin A., **Feizollahi M. J.**, Kutlu C., "Ocean Container Carrier Selection Using Fuzzy TOPSIS Method: Customers' Perspective," *Marine Technology Society Journal*, pp. 59-71, Vol. 56, No. 1, 2022.
2. Meylaks P., Sevigny E. L., **Feizollahi M. J.**, Amini M., "Development of the HIV-PWID Policy Index Measuring National Responses to HIV among People Who Inject Drugs," *International Journal of Drug Policy*, pp. 102877, Vol. 84, 2020.
3. Sharifi P., Banerjee A., **Feizollahi M. J.**, "Leveraging Owners' Flexibility in Smart Charge/Discharge Scheduling of Electric Vehicles to Support Renewable Energy Integration," *Computers & Industrial Engineering*, pp. 106762, Vol. 149, 2020.
4. Wu Y., Zhao F., Chen X., Skums P., Sevigny E. L., Maimon D., Ouellet M., Swahn M. H., Strasser S. M., **Feizollahi M. J.**, and Zhang Y., "Python Scrapers for Scraping Cryptomarkets on Tor" In *International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage*, pp. 244-260, Springer, Cham, 2019.
5. Chen X., Al Hasan M., Wu X., Skums P., **Feizollahi M. J.**, Ouellet M., Sevigny E. L., Maimon D. and Wu Y. "Characteristics of Bitcoin Transactions on Cryptomarkets" In *International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage*, pp. 261-276, Springer, Cham, 2019.
6. Majlesinasab N., Yousefian F., **Feizollahi M. J.**, "A First-order Method for Monotone Stochastic Variational Inequalities on Semidefinite Matrix Spaces," in 2019 American Control Conference (ACC), pp. 169-174, IEEE, 2019.
7. Torabzadeh S., **Feizollahi M. J.**, Mousavian S., "Robust Unit Commitment and the Promise of Higher Reliability in Electricity Markets," *Current Sustainable/Renewable Energy Reports*, Vol. 6, No. 3, pp 90-99, 2019.
8. **Feizollahi M. J.**, Ahmed S., Sun A., "Exact Augmented Lagrangian Duality for Mixed Integer Programming," *Mathematical Programming, Ser. A*, Vol. 161, No. 1, pp. 365-387, 2017.

9. Costley M., **Feizollahi M. J.**, Ahmed S., Grijalva S., "A Rolling-Horizon Unit Commitment Framework with Flexible Periodicity," *International Journal of Electrical Power & Energy Systems*, Vol. 90, pp. 280-291, 2017.
10. **Feizollahi M. J.**, Costley M., Ahmed S., Grijalva S., "Large-Scale Decentralized Unit Commitment," *International Journal of Electrical Power & Energy Systems*, Vol. 73, pp. 97-106, 2015.
11. **Feizollahi M. J.**, Feyzollahi H., "Robust Quadratic Assignment Problem with Budgeted Uncertain Flows," *Operations Research Perspectives*, Vol. 2, pp. 114-123, 2015.
12. Mousavian S., **Feizollahi M. J.**, "An Investment Decision Model for the Optimal Placement of Phasor Measurement Units," *Expert Systems With Applications*, Vol. 42, No.21, pp. 7276-7284, 2015.
13. **Feizollahi M. J.**, Soltani R., Feyzollahi H., "The Robust Cold Standby Redundancy Allocation in Series-Parallel Systems with Budgeted Uncertainty," *IEEE Transactions on Reliability*, Vol. 64, No. 2, pp. 799-806, 2015.
14. Nazari M. H., Costello Z., **Feizollahi M. J.**, Grijalva S., Egerstedt M., "Distributed Frequency Control of Prosumer-based Electric Energy Systems," *IEEE Transactions on Power Systems*, Vol. 29, No. 6, pp. 2934-2942, 2014.
15. **Feizollahi M. J.**, Averbakh I., "The Robust (Minmax Regret) Quadratic Assignment Problem with Interval Flows," *INFORMS Journal on Computing*, Vol. 26, No. 2, pp. 321-335, 2014.
16. **Feizollahi M. J.**, Ahmed S., Modarres M., "The Robust Redundancy Allocation Problem in Series-Parallel Systems with Budgeted Uncertainty," *IEEE Transactions on Reliability*, Vol. 63, No. 1, pp. 239-250, 2014.
17. **Feizollahi M. J.**, Modarres M., "The Robust Deviation Redundancy Allocation Problem with Interval Component Reliabilities," *IEEE Transactions on Reliability*, Vol. 61, No. 4, pp. 957-965, 2012.
18. **Feizollahi M. J.**, Modarres M., "Robust Quadratic Assignment Problem with Uncertain Locations," *Iranian Journal of Operations Research*, Vol. 3, No. 2, pp. 46-65, 2012.
19. **Feizollahi M. J.**, Shokouhi A., Modarres M., Tarokh M., "Designing a Model for Optimal Hospital Unit Layout," *Pajoohandeh*, Vol. 14, No. 4, pp. 191-198, 2009.

## B. BOOK CHAPTERS AND PREPRINTS

1. Alexander, C., **Feizollahi M. J.**, "Dragons, caves, teeth, and claws: Legal analytics and the problem of court data access," in *Computational Legal Studies: The Promise and Challenge of Data-Driven Legal Research*, yan Whalen, Ed. Edward Elgar, 2020.
2. Alexander, C., Al Jadda, K., **Feizollahi M. J.**, Tucker, A.M., "Using text analytics to predict litigation outcomes: A preliminary assessment," in *Law as Data: Computation, Text, and the Future of Legal Analysis*, M. Livermore and D. Rockmore, Eds. Santa Fe Institute Press, 2019.
3. Majlesinasab N., Yousefian F., **Feizollahi M. J.**, "First-Order Methods for Multi-Agent Systems on Semidefinite Matrix Spaces," Preprint: <https://arxiv.org/abs/1902.05900>.
4. **Feizollahi M. J.**, "A Privacy-Aware Distributed Approach for Loosely Coupled Mixed Integer Programming," Preprint available at: <https://arxiv.org/pdf/2205.00356.pdf>

## C. PAPERS UNDER REVIEW

1. \* Aghasi A., **Feizollahi M. J.**, Ghadimi S., "RIGID: Robust Linear Regression with Missing Data," under review.

2. \* Altinpulluk D., Fallahi F., **Feizollahi M. J.**, Yildirim M., “Condition Based Production Planning: Embedding Multi-Component Degradation Interactions to Synergize Operations and Failure Risks,” *Manufacturing and Service Operation Management*, ready to submit.
3. Attar A., Raissi S., Tohidi H., **Feizollahi M. J.**, “A Novel Perspective on Redundancy Allocation Problem with Erlang Failures and Realistic Constraints for Incomplete Switching Systems,” under review.
4. Dai R., Charkhgard H., **Feizollahi M. J.**, “A game-theoretical approach for balancing multi-prosumer energy trading through a shared energy storage,” under review.

#### D. WORKING PAPERS

1. **Feizollahi M. J.**, Razzaghi T., “Early Detection and Progression Prediction of Parkinson’s Disease via Fast Distributed Learning for Sparse Big Data”
2. **Feizollahi M. J.**, Aghasi A., Ghadimi S., “Adjustable Robust Linear Regression with Missing Data”.
3. Furugi A., **Feizollahi M. J.**, “A novel position based mathematical model for Sequence-dependent cost oriented assembly line balancing problem solving with Benders Decomposition algorithm”.
4. Alexander, C., **Feizollahi M. J.**, “Ant colony inspired explanation of litigation outcomes and legal firms’selection strategies”

#### E. OTHER PUBLICATIONS (IN PERSIAN)

1. **Feizollahi M. J.**, “An Introduction to SAS,” *Industrial Eng. J. of Sharif Uni. of Tech.*, Vol 36, 2003.
2. **Feizollahi M. J.**, “An Introduction to P3e,” *Industrial Eng. J. of Sharif Uni. of Tech.*, Vol 38, 2005.
3. **Feizollahi M. J.**, “An Introduction to Super Decisions,” *Industrial Eng. J. of Sharif Uni. of Tech.*, Vol 40, 2005.
4. Khodadadi M., **Feizollahi M. J.**, “A Tutorial for LINGO,” *Publications of Industrial Eng., Sharif Uni. of Tech., Iran*, 2005.
5. Sabouri A., **Feizollahi M. J.**, “A Tutorial for GAMS,” *Publications of Industrial Eng., Sharif Uni. of Tech., Iran*, 2006.

#### VII. PRESENTATIONS AND POSTERS

##### A. PRESENTED CONFERENCE PRESENTATIONS

1. **Feizollahi M. J.**, Aghasi A., Ghadimi S., “RIGID: Robust Linear Regression with Missing Data,” 17th INFORMS Computing Society Conference, Tampa, FL, January 2022 .
2. **Feizollahi M. J.**, “Decentralized Mixed Integer Programming: Theory and Application in Power Systems,” 7th International Conference on Industrial and Systems Engineering, Tehran, Iran, September 2021. (Invited Presentation)
3. **Feizollahi M. J.**, “Decentralized Mixed Integer Programming: Theory and Application in Power Systems,” 17th International Management Conference, Tehran, Iran, December 2020. (Invited Presentation)
4. **Feizollahi M. J.**, “Decentralized Mixed Integer Programming: Theory and Application in Power Systems,” Northeastern University, Boston, MA, September 2020. (Invited Presentation)

5. **Feizollahi M. J.**, Wang X., "Optimal Rebalancing for Bike Sharing Systems with Information Assisted Riders," INFORMS Annual Meeting, Phoenix, AZ, November 2018. (Invited Presentation)
6. Alexander C., **Feizollahi M. J.**, "Using Predictive Analytics to Forecast Litigation Outcomes," INFORMS Annual Meeting, Phoenix, AZ, November 2018. (Invited Presentation)
7. **Feizollahi M. J.**, Majlesinasab N., Yousefian F., "A First-Order Method for Semidefinite Stochastic Variational Inequality Problems," ISMP Meeting, Bordeaux, France, July 2018.
8. **Feizollahi M. J.**, "Decentralized Mixed Integer Programming: Theory and Application in Power Systems," Invited talk in Kedge Business School, Bordeaux, France, July 2018. (Invited Presentation)
9. **Feizollahi M. J.**, Wang X., "Optimal Rebalancing for Bike Sharing Systems with Information-Assisted Riders," 29<sup>th</sup> European Conference on Operations research, Valencia, Spain, July 2018.
10. **Feizollahi M. J.**, Mishra A., "The Value of Customer Flexibility in Smart Grids," POMS 27<sup>th</sup> Annual Conference, Orlando, FL, May 2016.
11. **Feizollahi M. J.**, Ahmed S., "Decentralized Mixed Integer Programming," INFORMS Annual Meeting, Philadelphia, PA, November 2015. (Session Chair)
12. **Feizollahi M. J.**, Ahmed S., Sun A., "Exact Augmented Lagrangian for Mixed Integer Programming," ISMP Meeting, Pittsburgh, PA, July 2015.
13. **Feizollahi M. J.**, Ahmed S., Costley M., Grijalva S., "Large-Scale Decentralized Unit Commitment," INFORMS Annual Meeting, San Francisco, November CA, 2014. (Invited Presentation)
14. **Feizollahi M. J.**, Averbakh I., "The Robust Deviation Quadratic Assignment Problem," INFORMS Annual Meeting, San Francisco, CA, November 2014.
15. **Feizollahi M. J.**, Ahmed S., Costley M., Grijalva S., "Energy Scheduling for Emerging Large Scale Power Systems: Decentralized Optimization Approaches," Workshop on Data-Driven Decision Making, School of Operations Research and Information Engineering, Cornell University, Ithaca, NY, October 2014. (Invited Presentation)
16. **Feizollahi M. J.**, Averbakh I., "The Robust (Minmax Regret) Quadratic Assignment Problem with Interval Flows," DOS Optimization Seminars, ISyE, Georgia Tech, Atlanta, Georgia, February 2014.
17. **Feizollahi M. J.**, Ahmed S., Costley M., Grijalva S., "Decentralized Prosumer-based Unit Commitment," INFORMS Annual Meeting, Minneapolis, MN, October 2013.
18. **Feizollahi M. J.**, Ahmed S., Grijalva S., "Distributed Energy Scheduler," INFORMS Annual Meeting, Phoenix, AZ, October 2012.
19. **Feizollahi M. J.**, Ahmed S., Modarres M., "Robust Optimization Approach to Uncertain Redundancy Allocation Problems," INFORMS Annual Meeting, Charlotte, NC, November 2011.
20. **Feizollahi M. J.**, Ahmed S., Modarres M., "Robust Redundancy Allocation Problems," DOS Optimization Seminars, ISyE, Georgia Tech, Atlanta, Georgia, October 2011.
21. **Feizollahi M. J.**, Ghotbaddini M., Modarres M., "Robust Quadratic Assignment Problem and a Heuristic to Solve It," 24<sup>th</sup> European Conference on Operations research, Lisbon, July 2010.
22. **Feizollahi M. J.**, Hasanzadeh M., Modarres M., "Robust Optimization Model of a Portfolio with Options," 2<sup>nd</sup> International Conference on Operations Research, Babolsar, Iran, May 2009.
23. **Feizollahi M. J.**, Shokouhi A., Modarres M., "Robust Quadratic Assignment Problem and a Heuristic Method to Solve It," 1<sup>st</sup> International Conference on Operations Research, Kish Island, Iran, January 2008.

24. **Feizollahi M. J.**, Modarres M., “Robust Optimization of a Bank Input/Output,” 1<sup>st</sup> International Conference on Operations Research, Kish Island, Iran, January 2008.
25. **Feizollahi M. J.**, Shokouhi A., Akbarpour-Shirazi M., “A Multi-Objective MIP Optimization Approach for Clustering Problem,” 1<sup>st</sup> Iran Data Mining Conference (IDMC’07), Tehran, Iran, December 2007.
26. **Feizollahi M. J.**, Shokouhi A., Modarres M., “Robust Quadratic Assignment Problem,” 5<sup>th</sup> International Conference on Industrial Engineering, Tehran, Iran, July 2007.
27. **Feizollahi M. J.**, Shokouhi A., “A Heuristic Method to Carry Finished Cars to their destinations,” 2<sup>nd</sup> National Conference on Logistics and Supply Chain, Tehran, Iran, November 2006.

#### B. CO-AUTHORED PRESENTATIONS

1. Altinpulluk D., Fallahi F., **Feizollahi M. J.**, Yildirim M., “A Condition-Based Robust Optimization Framework to Manage Fleet-Level Degradation: Controlling Degradation Rates, Operations and Maintenance,” 32nd Annual POMS Conference, Online, April 2022.
2. Dai R., Charkhgard H., **Feizollahi M. J.**, “Multi-user Energy Storage Sharing Based On the Nash Bargaining Solution,” INFORMS Annual Meeting, Seattle, WA, October 2019.
3. Sharifi P., **Feizollahi M. J.**, Banerjee A. “Maximum Renewable Utilization with Large Number of EVs,” IISE Annual Conference and Expo, Orlando, FL, May 2019.
4. Majlesinasab N., Yousefian F., **Feizollahi M. J.**, “A First Order Method for Stochastic Variational Inequalities on Semidefinite Matrix Spaces,” INFORMS Annual Meeting, Phoenix, AZ, November 2018.
5. Sharifi P., **Feizollahi M. J.**, Banerjee A. “Maximum Renewable Utilization with Large Number of Electric Vehicles,” INFORMS Annual Meeting, Phoenix, AZ, November 2018.
6. Alexander C., **Feizollahi M. J.**, “Employee or Contractor: A Study of Courts’ Misclassification Decisions,” INFORMS Annual Meeting, Houston, TX, October 2017.
7. Ahmed S., **Feizollahi M. J.**, Sun A., “Exact Augmented Lagrangian Duality in Mixed Integer Linear Programming,” CMO-BIRS Workshop: Modern Techniques in Discrete Optimization: Mathematics, Algorithms and Applications. Oaxaca, Mexico. November 2015.
8. Ahmed S., **Feizollahi M. J.**, Costley M., Grijalva S., “Decentralized Generation Scheduling in Power Networks” Norwegian University of Science and Technology, Trondheim, Norway, October 2015.
9. Jabbari A., Modarres M., **Feizollahi M. J.**, “Decentralized Approach in Power Plants Preventive Maintenance Scheduling Problem,” 8<sup>th</sup> International Conference on Operations Research, Mashhad, Iran, May 2015.
10. Costley M., **Feizollahi M. J.**, Ahmed S., Yeo S., Grijalva S., “Software System for Large-Scale Decentralized Unit Commitment,” INFORMS Annual Meeting, San Francisco, CA, November 2014.
11. Averbakh I., **Feizollahi M. J.**, Pereira J., “Metaheuristics in minmax-regret interval data combinatorial optimization problems,” 5<sup>th</sup> International Conference on Metaheuristics and Nature Inspired Computing, META 2014, Marrakech, Morocco, October 2014.
12. Rabieh M., **Feizollahi M. J.**, “The Robust Model of Multiple Sourcing: Alchemy of Risk Reduction in Supplier Selection,” 24<sup>th</sup> European Conference on Operations Research, Lisbon, July 2010.
13. Ghotbaddini M. M., Tavakkoli R., **Feizollahi M. J.**, “Machine Utilization in a New Multi-Objective Dynamic Cell Formation Design,” 2<sup>nd</sup> International Conference on Operations Research, Babolsar, Iran, May 2009.

14. Shokouhi A., **Feizollahi M. J.**, Shahriari H., "A Robust Optimization Approach to Resources Allocation in Maintained Systems," 4<sup>th</sup> International Conference on Maintenance, Tehran, Iran, July 2007.
15. Shokouhi A., **Feizollahi M. J.**, Shahriari H., "A robust multi-objective lead time control problem in multi-stage multi-product assembly systems," 5<sup>th</sup> International Conference on Industrial Engineering, Tehran, Iran, July 2007.
16. Shokouhi A., **Feizollahi M. J.**, "New In-house Transportation Policy: Input Rate Smoothing Policy," 2<sup>nd</sup> National Conference on Logistics and Supply Chain, Tehran, Iran, November 2006.
17. Fallahnejad M. S., **Feizollahi M. J.**, "Improving Status of IKCo's Parking Lots Using Discrete Event Simulation," 2<sup>nd</sup> National Conference on Logistics and Supply Chain, Tehran, Iran, November 2006.
18. Moteabbed S., **Feizollahi M. J.**, "Application of Analytical Network Process (ANP) to Select Pull/Push or a Hybrid System in SCM," 1<sup>st</sup> National Conference on Logistics and Supply Chain, Tehran, Iran, February 2005.

### C. POSTER SESSIONS

1. Grijalva S., Costley M., **Feizollahi M. J.**, "Energy Internet," ARPA-E energy innovation summit, Washington, DC, February 2014.
2. Grijalva S., Costley M., **Feizollahi M. J.**, "Decentralizing the Electricity Grid," ARPA-E energy innovation summit, Washington, DC, February 2013.
3. **Feizollahi M. J.**, "Decentralized Unit Commitment", Georgia Tech Research & Innovation Conference, Atlanta, GA, February 2013.
4. **Feizollahi M. J.**, Ahmed S., Costley M. Grijalva S., "Prosumer-based Optimal Energy Scheduler," Strategic Energy Institute Open House and Poster Session, Atlanta, GA, October 2012.
5. Ghotbaddini M., **Feizollahi M.**, Modarres M., "Robust Optimization Approach to Scheduling Interns at Hospitals," 24th European Conference on Operations research, Lisbon, July 2010.

## VIII. RESEARCH GRANTS

### A. EXTERNALLY-FUNDED RESEARCH PROJECT

- **\$247,745 Research Grant** (with Charlotte Alexander as PI) 2017-2019  
 THE US DEPT. OF LABOR'S OFFICE OF LABOR RESEARCH AND EVALUATION (LRE)  
 Research topic: "A Study of U.S. District Courts' Misclassification Decisions, 2008-2015."

## IX. RESEARCH EXPERIENCE

- **Assistant Professor, Georgia State University.** 2015-Present
  - Operations Research: Theory and Methodology
    - Developing robust linear regression models for missing data analysis
    - Designing an average matrix learning method for stochastic variational inequalities on matrix spaces
    - Developing theories and algorithms for exact and heuristic decentralized MIP.
  - Operations Research Applications

- Designing distributed learning methods for sparse big data: application in early detection and progression prediction of Parkinson's Disease
- Investigating approaches to manage renewable and storage integration into power systems
- Developing business and mathematical models to integrate renewable resources in the power grids by appropriately exploiting the customers' flexibility and projected consumption.
- Business and Legal Analytics:
  - Studying the US district courts' decisions on employee misclassification cases in a research project supported by the US Department of Labor (2017-present).
  - Fighting the opioid epidemic by exploring online drug markets
  - Modeling structure and dynamics of illicit opioid networks via legal analytics
  - Used text mining and machine learning techniques for the process improvement in an insurance company and final status prediction of the brokers' submissions (Fall 2018).
  - Worked with a law firm to predict the outcome of lawsuits related to employee and employer using text mining and machine learning techniques (Spring 2018).
  - Explored online journey of visitors of the SunTrust Bank website and used analytical techniques to predict their conversion probability to be a customer (Spring 2017).
  - Used text mining and machine learning to predict the chance of customers' royalty and attrition in the SunTrust Bank Sprint (Spring 2016).
  - Applied predictive Analytics to explore a huge set of health insurance claims and to forecast the required workforce for processing these claims (Spring 2015).
- **Graduate Research Assistant, Georgia Institute of Technology.** 2011-2015  
 Worked with Professors Shabbir Ahmed and Santiago Grijalva.
  - Proposed a decentralized, security-constrained unit commitment approach and developed a novel algorithm to solve this problem in parallel with limited data exchange.
  - Developed a decentralized frequency control approach for power systems.
  - Investigated various relaxation and augmenting methods for MIP problems. Showed that there exists exact augmented Lagrangian dual for general MIP problems.
- **Visiting Research Scholar, Georgia Institute of Technology.** 2010-2011  
 Worked with Professors Shabbir Ahmed, Igor Averbakh, and Mohammad Modarres.
  - Developed robust approaches for redundancy allocation and quadratic assignment problems.
- **Graduate Research Assistant, Sharif University of Technology.** 2005-2010  
 Worked with Professor Mohammad Modarres.
  - Developed robust optimization approaches for problems with nonlinear uncertainty.
  - Developed robust counterparts and solution methods for important optimization problems in industrial and financial engineering such as QAP, maintenance resource allocation, clustering, option hedging, and bank input/output balancing.
- **Undergraduate Research Assistant, Sharif University of Technology.** 2003-2005  
 Worked with Professor Mohammad Modarres.
  - Developed an analytic network processing (ANP) model for selecting the appropriate pull/push or hybrid manufacturing system.

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## X. TEACHING EXPERIENCE

- **Assistant Professor**, GEORGIA STATE UNIVERSITY, Atlanta, GA, USA. 2015-Present
  - MSDA Math Prep Bootcamp, Fall 2021
  - Predictive Analytics, Spring Semester 2021
  - Research Methods with Analytics, Spring Semester 2020
  - Statistical Foundations for Business Analytics, Fall Semesters 2015-2021
  - Operations Research Models and Methods, Spring Semesters 2016-2018
  - Basic and Advanced R Bootcamps, Fall Semesters 2015-2021
  - Linear Algebra Bootcamp, Fall 2016-2020
- **Guest Lecturer**, GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA, USA. 2014
  - Smart Grids, Fall 2014
- **Teaching Assistant**, GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA, USA. 2011
  - Advanced Optimization, Fall 2011
  - Nonlinear Programming, Spring 2011
- **Instructor**, ISLAMIC AZAD UNIVERSITY, Iran. 2009-2010
  - Production and Operations Management, Spring 2009, Fall 2009
  - Operations Research I, Summer 2009, Fall 2009
  - Operations Research II, Spring 2009, Summer 2009, Fall 2009
  - System Dynamics, Fall 2009
- **Instructor**, GOLPAYGAN UNIVERSITY OF TECHNOLOGY, Iran. 2008
  - Operations Research II, Fall 2008
  - Transportation Planning, Fall 2008
- **Instructor**, UNIVERSITY OF SCIENCE & CULTURE, Iran. 2008
  - Advanced Engineering Economics, Fall 2008
- **Instructor**, UNIVERSITY OF KHATAM, Iran. 2008
  - Production and Operations Management, Spring 2008
- **Teaching Assistant**, SHARIF UNIVERSITY OF TECHNOLOGY, Iran. 2003-2009
  - Financial Engineering, Fall 2008, Spring 2009
  - Stochastic Dynamic Programming, Fall 2007, Spring 2008
  - Reliability, Fall 2006, Spring 2008
  - Advanced Operations Research I, Fall 2004
  - Operations Research II, Fall 2005
  - Operations Research I, Fall 2004, Spring 2005, Fall 2005
  - Probability Theory, Spring 2006, Fall 2006
  - Simulation, Spring 2004
  - Engineering Economics, Fall 2003, Spring 2004
  - Engineering Statistics Fall 2004, Spring 2005

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## XI. SERVICE, AFFILIATIONS AND OTHER PROFESSIONAL ACTIVITIES

### A. SERVICE ACTIVITIES INTERNAL TO THE UNIVERSITY

- Member of Institute for Insight's Academic Program Review (APR) committee, Spring 2022-present
- RCB Faculty Affairs Committee member, Fall 2018-present
- Faculty search committee member for Institute for Insight, Spring 2017 and 2019.
- Faculty search committee member for Actuarial Sciences, Spring 2017.
- Developed new courses for the MSA program, Fall 2017
- Coordinated software bootcamps and workshops, 2015-2016
- Organized "Friday Lab" seminars, 2015-2016
- Actively involved in "Employer Speaker Series", 2015-2016
- Leading the "Smart Grid Analytics" research group, 2015-present
- Actively involved in "Wednesday Evening Lecture Series", 2015-2016
- Initiating, coordinating and supervising the industry sprints and research projects, 2015-present
- Participating in student open houses and graduation ceremonies, 2016-present
- Active Participation in student open houses, ISyE, GEORGIA TECH 2012-2015

### B. SERVICE ACTIVITIES IN ACADEMIC AND PROFESSIONAL ORGANIZATIONS

- **Invited speaker at**
  - 7th International Conference on Industrial and Systems Engineering, Tehran, Iran, September 2021
  - 17th International Management Conference, Tehran, Iran, December 2020
  - Northeastern University, Boston, MA, September 2020
  - INFORMS Annual Meeting, Phoenix, AZ, November 2018
  - Kedge Business School, Bordeaux, France, July 2018
  - INFORMS Annual Meeting, San Francisco, November CA, 2014
  - School of Operations Research and Information Engineering, Cornell University, Ithaca, NY, October 2014
- **Session chair** for INFORMS
  - Session on Distributed and Parallel Optimization, Philadelphia, PA 2015
  - Session on Robust Optimization, San Francisco, CA 2014
- **Managing Editor**, IRANIAN JOURNAL OF OPERATIONS RESEARCH, Tehran, Iran. 2009-2010
- **Research Head**, OPERATIONS RESEARCH STUDENT GROUP OF SHARIF UNI. OF TECH., Tehran, Iran. 2005-2006
- **Reviewer** for

- Energies
- Mathematical Programming,
- European Journal of Operations Research,
- Journal of Global Optimization
- Transportation Research
- Reliability Engineering & System Safety,
- IIE Transactions on Quality and Reliability Engineering,
- International Transactions in Operational Research,
- Optimization and Engineering,
- IEEE Transactions on Power Systems,
- IEEE Transactions on Smart Grids,
- IEEE Transactions on Reliability,
- IEEE Transactions on Sustainable Energy,
- International Journal of Electrical Power & Energy Systems
- North American Power Symposium,
- Scientia Iranica.

■ **Member of**

- Institute for Operations Research and Management Sciences (INFORMS), 2011-present
- Institute of Electrical and Electronics Engineers (IEEE), 2012-2015
- INFORMS Computing Society, 2013-present
- Data Science Atlanta, 2015-present