Mohsen Emadikhiav

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EDUCATION

University of Connecticut, Storrs, Connecticut, USA

- Ph.D. in Business Administration
  - Concentration: Operations and Information Management — Sep 2015 – Present
  - Co-Major Advisers: Robert Day, David Bergman
  - Associate Adviser: Sudip Bhattacharjee

Linköping University, Linköping, Sweden

- M.Sc. in Industrial Engineering and Management — Sep 2013 – Jun 2015

Iran University of Science and technology, Tehran, Iran

- B.Sc. in Industrial Engineering — Sep 2008 – Jul 2013

RESEARCH INTERESTS

- Market Design
  - Procurement auctions
  - Combinatorial auctions
- Supply Chain Management
  - Vehicle routing
  - Carrier collaboration
  - Scheduling
  - Inventory Management
- Business Analytics
- Discrete Optimization

RESEARCH WORKS

PAPERS UNDER REVIEW

- "Consistent routing with simultaneous pickups and deliveries," invited for second round review at Production and Operations Management (joint work with David Bergman and Robert Day).

WORKING PAPERS

- "Designing a sustainable backhaul framework using telematics sensor data and analytics," Reject and Resubmit, MIS Quarterly (joint work with Sudip Bhattacharjee and Robert Day).
- "Efficient, budget-balanced auctions with lane exchanges and compact bid languages" (joint work with Robert Day, David Bergman, and Sudip Bhattacharjee)
- "Exact algorithms to solve b-matching problems with side constraints for carrier collaboration" (joint work with David Bergman)
- "A logic-based Benders decomposition for assembly scheduling problems with inventory constraints,"(joint work with David Bergman and Andre Cire)

PUBLISHED PAPERS

- M. Mazdeh, M. Emadikhiav, and I. Parsa, "A heuristic to solve the dynamic lot sizing problem with supplier selection and quantity discounts," *Computers and Industrial Engineering*, vol. 85, pp. 33–43, May 2015.
- I. Parsa, M. Emadikhiav, M. Mazdeh and S. Mehrani, "A multi supplier lot sizing strategy using dynamic programming," *International Journal of Industrial Engineering Computations*, vol. 4, no. 1, pp. 61–70, Jan 2013.

CONFERENCE PRESENTATIONS

- "A consistent vehicle-routing problem with simultaneous pickups and deliveries," *INFORMS Computing Society Conference 2019, Knoxville, TN.*
- "Sensor data analytics for sustainable transportation: collaboration in the trucking industry," *Workshop on Information Technologies and Systems 2018, Santa Clara, CA.*
- "Consistency versus flexibility in vehicle routing with simultaneous pickups and deliveries," *INFORMS Annual Meeting 2017, Houston, TX.*
- "A Fordyce-Webster algorithm for lot-sizing problems with backlogging," *International Logistics and Supply Chain Management Conference 2012*, Tehran, Iran.

TEACHING EXPERIENCE

- Instructor
  - Introduction to Operations Management (Spring 2018)
  - 136 students (teaching evaluation: 4.0 out of 5.0)
- Teacher Assistant
  - Introduction to Operations Management (Fall 2015 - present)

AWARDS

- University of Connecticut School of Business Dean's summer fellowship (2018).
- Best project award from the department of Logistics and Quality Management at Linkoping University, Spring (2014).
- Received full scholarship from the Swedish Institute (SI) to study at Linkoping University (2013).
- Ranked top 0.5% among more than 300,000 participants in Iran Universities entrance exam Bachelor degree (2008).

SERVICE

- Website Chair: Conference on Principles and Practice of Constraint Programming (2019)
- Session Chair: Production and Operations Management Society Conference (2019)
- Reviewer:
  - International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (2017-Present)
  - The AAAI Conference on Artificial Intelligence (2017)
- Organizing Committee: UCONN School of Business PhD Program 30th Anniversary (2017)

INTERNSHIPS

EXOVA METECH, Linkoping, Sweden

- A Six Sigma project (green belt)

Improving on-time delivery of customers' orders — Aug 2014 – Dec 2014

PROFESSIONAL MEMBERSHIPS

The Institute for Operations Research and the Management Sciences (INFORMS)
2015 – present

Production and Operations Management Society (POMS)
2018 – present

SKILLS

C++, GUROBI, IBM ILOG CPLEX, R, Stata, AIMMS, AMPL, SPSS Statistics, LaTeX

REFERENCES

- **Robert Day**
  Associate Professor of Operations and Information Management
  University of Connecticut, School of Business
  2100 Hillside Rd, Storrs, CT 06268
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- **David Bergman**
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