

AMIN HOSSEININASAB

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EMPLOYMENT

Warrington College of Business, University of Florida Aug. 2020 - Present
Assistant Professor of Marketing.

EDUCATION

Tepper School of Business, Carnegie Mellon University May 2020
PhD in Operations Research, minor in Machine Learning.

Tepper School of Business, Carnegie Mellon University May 2016
MSc in Operations Research

University of Waterloo Jan. 2015
MSc in Management Science

Amirkabir University of Technology May 2012
BSc in Industrial Engineering and Management Systems

RESEARCH INTERESTS

Machine learning for marketing; Interpretable machine learning; Causality in machine learning; Fairness in AI; Sequential pattern mining; Mathematical programming; Data-driven decision making; E-Commerce; Healthcare markets; Financial markets; Operations.

PUBLICATIONS

Wang, X., **Hosseininasab, A.**, Colunga, P., Kadioğlu, S., and van Hoeve, W.J., 2022. Seq2Pat: Sequence-to-Pattern Generation for Constraint-based Sequential Pattern Mining. *Proceedings of the AAAI Conference on Artificial Intelligence*, to appear.

Hosseininasab, A., van Hoeve, W.J. and Cire, A.A., 2019. Constraint-Based Sequential Pattern Mining with Decision Diagrams. *Proceedings of the AAAI Conference on Artificial Intelligence*, 33 (01), 1495-1502.

Hosseininasab, A., van Hoeve, W.J., 2021. Exact Multiple Sequence Alignment by Synchronized Decision Diagrams. *INFORMS Journal on Computing*, 33 (2): 721-738.

Hosseininasab, A. and Gzara, F., 2020. Effects of Feasibility Cuts in Lagrangian Relaxation for a Two-stage Stochastic Facility Location and Network Flow Problem. *Optimization Letters*, 14 (1), 171-193.

Hosseininasab, A. and Ahmadi, A., 2015. Selecting a Supplier Portfolio with Value, Development, and Risk Consideration. *European Journal of Operational Research*, 245 (1), 146-156.

For a complete list visit: <https://scholar.google.com/citations?user=uCC6V14AAAAJhl=en>

WORKING PAPERS

Hosseininasab, A., van Hoeve, W.J. and Tayur, S. - The Provider Network Selection Problem in Health Insurance Markets. (Submitted)

Hosseininasab, A., van Hoeve, W.J. and Cire, A.A. - Memory Efficient Tries for Sequential Pattern Mining. (Submitted)

Hosseininasab, A. - The Effects of Healthcare Mandates on Health Insurance Markets. (In preparation)

Ahmadi, B., **Hosseininasab, A.**, Reisi Gahrooei, M. - Learning Multi-touch Attribution in Sequential Advertising. (In preparation)

Hosseininasab, A., Shugan, S. M. - Learning from Imbalanced Data. (In preparation)

Hoover, J., **Hosseininasab, A.** - A Learning Framework for Fair Promotions in Direct Marketing. (In preparation)

Hosseininasab, A., Kumar, A. - Learning Product Design via Customer Reviews. (In preparation)

Hosseininasab, A. - Stock Chart Patterns, Reality or Myth? Evidence from Large-scale Sequential Pattern Mining. (In preparation)

Hosseininasab, A., van Hoeve, W.J. - Explaining User Skips in Music Streaming Platforms via Interpretable Machine Learning. (In preparation)

SELECTED TALKS

The Provider Network Selection Problem in Healthcare Markets

- INFORMS Annual meeting, Anaheim, California. Oct. 2021

Structure Mining for Interpretable Data-driven Sequential Decision Making

- INFORMS Annual meeting, Seattle, Washington. Oct. 2019

Explaining User Skips in Music Streaming Platforms via Interpretable Machine Learning

- 14th INFORMS Workshop on Data Mining & Decision Analytics, Seattle, Washington. Oct. 2019

Mining Knowledge from Sequential Data

- POMS Annual Meeting, Washington, DC. May 2019

Constraint-based Sequential Pattern Mining by Decision Diagrams

- AAI Conference on Artificial Intelligence, Honolulu, Hawaii. Feb. 2019
- INFORMS Computing Society, Knoxville, Tennessee. Jan. 2019
- INFORMS Annual Meeting, Phoenix, Arizona Nov. 2018

Exact Multiple Sequence Alignment by Synchronized Decision Diagrams

- INFORMS Annual Meeting, Houston, Texas. Oct. 2017

A Time-Constrained Pickup and Delivery Problem: Formulation and Solution by Two-level Logic-Based Benders Decomposition

- INFORMS Annual Meeting, Nashville, Tennessee. Nov. 2016

TEACHING EXPERIENCE

Machine Learning Methods for Business Applications (PhD)	Spring 2021, 2022
Marketing Analytics I (MSBA)	Spring 2021, 2022
Mathematical Models for Consulting (undergraduate)	Spring 2020

INDUSTRY EXPERIENCE

Data Analyst (Summer Intern)

Fedex Ground, Moon township, PA. Jun. - Aug. 2018

- Design and implementation of structure mining for vehicle routing.
- Model and implementation of load plan optimization for hub and spoke network.

Strategic Planner (Summer Intern)

Kavir TY, Science and Technology Park, Yazd, Iran. Jun. - Sep. 2011

- Statistical data analysis to identify and establish key factors in strength and weaknesses of Bafgh ore mine.
- Member of a team to establish strategic priorities for Bafgh ore mine.

AWARDS AND HONORS

- 2nd place, 14th INFORMS Workshop on Data Mining & Decision Analytics best paper competition, Seattle, Washington. 2019
- Nominated as one of seven PhD students from Carnegie Mellon University for Schmidt Science Fellowship (university wide). 2019
- Certificate for teaching excellence, University of Waterloo. 2014
- Best student paper award in Industrial Engineering and Management Systems, Amirkabir University of technology. 2012
- 1st place, regional and provincial programming Olympiads, Yazd, Iran. 2008

PROFESSIONAL SERVICE

- Session chair and organizer, Machine Learning for Marketing Applications, INFORMS Annual meeting, Anaheim, California. Oct. 2021
- Session chair and organizer, Data-driven Decision Making and Decision Diagrams, INFORMS annual meeting, Seattle, Washington. Oct. 2019
- Treasurer, INFORMS Student Chapter at Carnegie Mellon University. 2018