

# Mir Ehsan Hesam Sadati

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Google Scholar Profile

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## EDUCATIONAL STATUS

[2014–2018] **PhD** in Industrial Engineering and Operations Management, Koç University, Istanbul, Turkey (expected: December 2018).

**Thesis:** *A Trilevel  $r$ -Interdiction Multi-Depot Vehicle Routing Problem with Depot Protection and Customer Selection*

**Supervisor:** Assoc. Prof. Deniz Aksen

[2012–2014] **MSc** in Industrial Engineering, Urmia University, Urmia, Iran.

**Thesis:** *Harmony Search Algorithm for Optimization of Multi-Objective Fuzzy Random Portfolio Selection*

**Supervisor:** Dr. Ali Doniavi

[2008–2012] **BSc** in Industrial Engineering, University of Tabriz, Tabriz, Iran.

**Thesis:** *A Fuzzy Modeling for Fuzzy Portfolio Optimization*

**Supervisor:** Dr. Javad Nematian

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## RESEARCH INTERESTS

Vehicle Routing, Facility Interdiction, Heuristic Optimization, Bilevel Programming, Distribution and Collection Logistics, Mathematical Modelling.

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## PUBLICATIONS

- **Mir Ehsan Hesam Sadati**, Deniz Aksen and Necati Aras “The  $r$ -Interdiction Multi-Depot Vehicle Routing Problem with Customer Selection” (under review).
- Deniz Aksen, Temel Öncan, **Mir Ehsan Hesam Sadati**, “An empirical investigation of four well-known polynomial-size VRP formulations” (under review).
- **Mir Ehsan Hesam Sadati**, Deniz Aksen and Necati Aras “A Trilevel  $r$ -Interdiction Multi-Depot Vehicle Routing Problem with Customer Selection” (working paper).
- **Mir Ehsan Hesam Sadati**, Javad Nematian, "Two-level linear programming for fuzzy random portfolio optimization through possibility and necessity-based model." *Procedia Economics and Finance* 5 (2013): 657-666.
- Javad Nematian, **Mir Ehsan Hesam Sadati**, "New methods for solving a vertex  $p$ -center problem with uncertain demand-weighted distance: A real case study." *International Journal of Industrial Engineering Computations* 6, no. 2 (2015): 253-266.
- **Mir Ehsan Hesam Sadati**, Ali Doniavi, and Abbas Samadi. "Possibility theory for multiobjective fuzzy random portfolio optimization." *Decision Science Letters* 3, no. 3 (2014): 305-318.

- **Mir Ehsan Hesam Sadati**, Ali Doniavi. "Optimization of Fuzzy Random Portfolio selection by Implementation of Harmony Search Algorithm." *International Journal of Engineering Trends and Technology* 8, no. 2 (2014): 60-64.
  - **Mir Ehsan Hesam Sadati**, Jamshid Bagherzadeh Mohasefi. "The Application of Imperialist Competitive Algorithm for Fuzzy Random Portfolio Selection Problem." *International Journal of Computer Applications* 79, no. 9 (2013): 10-14.
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## TEACHING EXPERIENCE

- INDR 201, Discrete Mathematical Structures, 1 semester (Fall 2016)
  - INDR 252, Applied Statistics, 1 semester (Spring 2015)
  - INDR 430/530, Decision Analysis, 1 semester (Fall 2017)
  - MATH 101, Mathematics for Business, 1 semester (Fall 2015)
  - MGIS 301, Management Information Systems, 2 semesters (Spring 2016, Spring 2017)
  - MGIS 410/510, Electronic Commerce Management, 2 semesters (Fall 2014, Spring 2018)
  - QMBU 310/501, Introduction to Management Science, 2 semester (Fall 2017, Fall 2018)
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## AWARDS AND HONORS

- **Fall 2017 Outstanding Teaching Award Recipient**, Graduate School of Science and Engineering, Koç University.
  - **Koç University Foundation Scholarship** (2014-present).
  - **Ranked 1<sup>st</sup>** graduate student, Urmia University.
  - Certificate of "Attended and Participated in a Pearson In-Service Workshop on Top Notch at Alef Educational Complex", 2013.
  - Honor Student in Pre-university Certificate, Tabriz-Iran 2007.
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## REFEREE FOR

- Omega: The International Journal of Management Science
  - Economic Modelling
  - Global Journal of Technology & Optimization
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## PRESENTATIONS

- "The *r*-Interdiction Multi-Depot Vehicle Routing Problem". 29<sup>th</sup> European Conference on Operational Research (**EURO 2018**), Valencia, Spain, July 8-11 2018.
- "The *r*-Interdiction Multi-Depot Vehicle Routing Problem with Customer Selection". Operations Research / Industrial Engineering Doctoral Students Colloquium, Sabanci University Industrial Engineering Department, Istanbul, Turkey, November 2-3 2017.
- "The *r*-Depot Interdiction Vehicle Routing Problem with Capacitated Vehicles and Depots". 37<sup>th</sup> National Operations Research and Industrial Engineering Congress (**YAEM 2017**), Yıldız Technical University Industrial Engineering Department, Istanbul, Turkey, July 5-7 2017.

- “*Comparison of Three Classes of MIP Formulations for the Generic CVRP*”.  
**VeRoLog 2015**, Annual Workshop of the EURO Working Group on Vehicle Routing and Logistics Optimization, Vienna, Austria, June 8-10 2015.
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## PhD LEVEL COURSEWORK

- **Koç University, Turkey**  
**Department of Industrial Engineering:**  
Optimization Models and Algorithms (advanced), Stochastic Models and Applications (advanced), Network Models and Applications, Decision Analysis, Heuristic Methods, Logistic Management.  
**Department of Computer Engineering:**  
Algorithm Design Analysis.
  - **Boğaziçi University, Turkey**  
**Department of Industrial Engineering:**  
Large Scale Programming.
  - **University of Brescia, Italy**  
EURO PhD School on Routing and Logistics (June 2015).
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## ADVANCED COMPUTER SKILLS

Visual Studio C#, CPLEX, GUROBI, GAMS, MATLAB, Mathematica, Microsoft Excel.

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## REFERENCES

- Associate Professor Deniz Aksen  
College of Administrative Sciences and Economics, Koç University, İstanbul, Turkey  
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Phone: (+90) 212 338 16 84
  - Professor Necati Aras  
Department of Industrial Engineering, Boğaziçi University, İstanbul, Turkey  
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Phone: (+90) 212 359 7506
  - Associate Professor F. Sibel Salman  
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Phone: (+90) 212 338 1707
  - Professor Z. Caner Taşkın  
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