

Hadi Abbaszadehpeivasti

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Education

Operation Research

Ph.D., Tilburg, The Netherlands

Tilburg University

2021-

Thesis advisor: Prof. Etienne De Klerk

Industrial Engineering

Master of Science, Istanbul, Turkey

Sabanci University

2019-2020

GPA: 3.91/4

Master Thesis: *On maximum likelihood and sample moment estimators for the m th (central) moment in a normal and generalized gamma population*

Thesis advisor: Prof. Hans Frenk

Industrial Engineering

Master of Science, Tehran, Iran

Sharif University of Technology

2012-2014

GPA: 17.89/20

Master Thesis: *A stochastic Kriging meta-model for simulation optimization based on a k -optimal design*

Thesis advisor: Prof. Hashem Mahlooji

Applied Mathematics

Bachelor of Science, Zanjan, Iran

University of Zanjan

2008-2012

GPA: 17.06/20

Research Interests

- Machine Learning
- Numerical Optimization
- Stochastic Optimization
- Data Analysis

Articles

- **Hadi Abbaszadehpeivasti**, Etienne de Klerk, Moslem Zamani, "The exact worst-case convergence rate of the gradient method with fixed step lengths for L-smooth functions". *Optim Lett* (2021). <https://doi-org.tilburguniversity.idm.oclc.org/10.1007/s11590-021-01821-1>
- **Hadi Abbaszadehpeivasti**, Etienne de Klerk, Moslem Zamani, n the rate of convergence of the Difference-of-Convex Algorithm (DCA), under review.
- **Abbaszadehpeivasti, Hadi**, Frenk, J.B.G. On the method of moments approach applied to a generalized gamma population, *Communications in Statistics - Theory and Methods*, 2021, doi:10.1080/03610926.2021.1979042

- **Abbaszadehpeivasti, Hadi**, Frenk, J.B.G. On sample and MLE moment estimators in a normal population, under review.
- **Abbaszadehpeivasti, Hadi**, Frenk, J.B.G. On the maximum likelihood approach applied to a (generalized) gamma population, In progress

Honors & Awards

2018: Recipient of Dean's Scholarship, FENS, Sabanci University

2015: Member of the "National Elites Foundation" of Iran.

2014: Ranked 2nd in systems and industrial Eng. graduate program class of 2014, Sharif University of Technology.

2012: Ranked 3rd in applied mathematics undergraduate program class of 2012, University of Zanjan.

2012: Ranked 3rd among 9279 candidates in national exam for the graduate program in systems and industrial Eng. field.

2010: Secretary of Association of Mathematics at university of Zanjan.

Course projects

- **Optimization Theory**
we reviewed the role of semidefinite relaxation (SDR) technique for quadratically constrained quadratic problems (QCQPs) in optimization problems.
- **Nonlinear Programming**
I reviewed convergence of Gauss-Seidel method, conjugate gradients, first-order and second-order optimization.
- **Simulation**
I learnt continuous simulation as well as discrete-event simulation with warm up period. Also, I became familiar with the number theory behind producing pseudo-random numbers.
- **Integer Programming**
I reviewed different approximate methods for solving "travelling salesman problem".
- **Dynamic Systems and Econometric**
With SAS and Vensim software I modeled the rate of economic growth and predicted its future trend.
- **Time Series Analysis**
A time series modeling in the case of "coal production in USA".
- **Dynamic Programming**
I reviewed different approaches for dynamic programming decomposition methods for making overbooking decisions over airline network.

Teaching Experience

- **Teaching Assistant**, IE 305: Simulation, FENS, Sabanci University. *Instructors:* Prof. Sinan Yildirim, Prof. Ali Rana Atilgan. Spring 2019, Fall 2019
- **Teaching Assistant**, Statistical Modeling, FENS, Sabanci University. *Instructors:* Prof. Ersin Göğüş, Summer 2019
- **Teaching Assistant**, Operation Research 1, FENS, Sabanci University. *Instructors:* Prof. Burak Kocuk, Spring 2020, Fall 2020
- **Teaching Assistant**, Prescriptive Algorithms, Tilburg University. *Instructors:* Prof. Dr. Goos Kant, Spring 2021

Work Experience

- **Assistant to a dermatologist** 2015 - 2018
As an analyst of epidemiological data and patients' medical information.

Computer Skills

Programming: Python, Matlab, C++
Statistical and Probability: SAS, R, MINITAB, SPSS
Optimization: Cplex, Gurobi, Yalmip
Simulation: Arena

References

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