

# Afshin Oroojlooy Jadid

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## EDUCATION

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**M.Sc. Industrial Engineering, Sharif University of Technology** Sep. 2010 –  
GPA: 18.59/20\* (4/4) Oct. 2012  
Thesis Title: *Train Timetabling on multiple track and station capacity railway with enhanced upper bound heuristic method and Lagrangian Relaxation lower bound*  
Supervisor: [Prof. Kouros Eshghi](#)

**B.Sc. Industrial Engineering- Industrial Production, Isfahan University of Technology** Sep. 2006 –  
GPA: 17.59/20\*\* (3.87/4.0) Sep. 2010  
GPA over the last two years: 18.12/20 (3.92/4.0)  
High School Diploma: Mathematic & Physics, Badamchi High School Sep. 2002 –  
Jul. 2006

\*The average GPA of M.Sc. career in Industrial Engineering department is 17.16

\*\*The average GPA of Industrial Engineering department is 14.45

## RESEARCH INTERESTS

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Operations Research	Applied Operations Research
Mathematical Modelling	Mixed Integer Programming
Discrete Mathematics' Cutting Planes	Heuristic and Meta Heuristic Algorithm
Scheduling and Timetabling	Transportation Planning and Timetabling

## PUBLICATIONS

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1. K. Kianfar, S.M.T. Fatemi Ghomi, [A. Oroojlooy Jadid](#), 2012, Study of stochastic sequence-dependent flexible flow shop via developing a dispatching rule and a hybrid GA, *Engineering Applications of Artificial Intelligence* 25 (2012) 494–506
  2. [A. Oroojlooy Jadid](#), K. Eshghi, Train Timetabling on multiple track and station capacity railway with upper bound heuristic method for trains with same parameters, *Accepted in Sharif Journal of Science and Technology*, Springer.

## UNDERREVIEW / IN PROGRESS

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1. [A. Oroojlooy Jadid](#), K. Eshghi, Train Timetabling on multiple track and station capacity railway with enhanced upper and lower bound heuristic method for same train in network, under review, Jun 2013
  2. [A. Oroojlooy Jadid](#), B. Ghalebsaz Jeddi, Transfer Function and ARIMA Models to Forecast Atmospheric Carbon Dioxide Emission, under review, Dec 2012
  3. [A. Oroojlooy Jadid](#), A Mathematical Programming Model for Irrigation Planning problem, work in progress

## TALKS

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1. [A. Oroojlooy Jadid](#), K. Eshghi, Train Timetabling on multiple track and station capacity railway with enhanced upper bound heuristic method, International Annual Conference of the German OR Society, Hannover, Germany, September 2012.

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2. S.M. Abtahi, A. Oroojlooy Jadid, M. Hajian, H.R. Rezaee, H. Gholizade, The evaluation of using the new methods of Roads-maintenance-reparation by analytic hierarchy process, National conference of Transportation Infrastructures, Tehran, Iran, Feb 2013.
  3. GH. Raissi A., A. Oroojlooy J., R. Alahyari, Acoustic Study with the Approach of Working Conditions Improvement in the Stone Industry of Iran Case Study: Isfahan Stone Industrial Cluster, The 8th International Industrial Engineering Conference, Tehran, Iran, February, 2012. (In Persian)

## TEACHING ASSISTANT EXPERIENCES

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<i>Graph Theory</i> (graduate course) under supervision of Prof. Eshghi.	Spring 2013
<i>Operations Research I</i> under supervision of Prof. Eshghi.	Fall 2011 & spring 2012
<i>Design and Analysis of Experiments</i> (graduate course) under supervision of Prof. Akhavan Niaki.	fall 2011
<i>Inventory Control and Production Planning</i> under supervision of Dr. Mokhatab Rafiee.	Spring 2009
<i>*In all of them I had the responsibility of giving and grading quizzes, grading homework, solving necessary or requested problems for students.</i>	

## HONORS

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- Ranked **3<sup>rd</sup>** among 74 M.Sc. Industrial Engineering students (2010-2012) Industrial Engineering Department of Sharif University of Technology
- Introduced as a scientific elite by the Iranian National Elite Institute, 2012
- Ranked **13<sup>th</sup>** among more than 7,000 participants in the Iranian universities' entrance exam for M.Sc. degree in Industrial Engineering (2010)
- Awarded **DAAD scholarship** for Summer School from German Academic Exchange Service (August and September 2009)
- Ranked **3<sup>rd</sup>** among 78 undergraduate Industrial Engineering students (2006-2007) Industrial Engineering Department of Isfahan University of Technology

## NOTABLE COURSES TAKEN

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Sequencing and Scheduling Theory: 19.2/20	Graph Theory: 18.3/20
Design and Analysis of Experiment 18.4/20	Decision Making: 18/20
Fundamentals of Computer Simulation: 18.7/20	Stochastic Process: 17:8/20

## COMPUTER SKILLS

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Algorithm Development Environments:	C/ C++/ C#, VISUAL BASIC
Industrial Engineering related software:	GAMS, MATLAB, SAS, MSP
Data Bases	familiar with Oracle, Microsoft SQL, Access
Simulation software:	ED (Enterprise Dynamic), GPSS, HDM4 (Road Maintenance Simulator)
General Software:	Microsoft Excel, Word, PowerPoint, Visio, Access, Adobe Photoshop, Latex

## EXTRACURRICULAR/ VOLUNTEER ACTIVITIES

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- Climbing, Biking, and Swimming.
- Member of Editorial board in Behbood Magazine, Industrial Engineering Magazine of Isfahan University of Technology. 2007- 2009.
- Member of Amateur Climbing group, Isfahan University of Technology (2007- 2010).
- Member of Student Government, Isfahan University of Technology, Jan 2008- Dec 2009.
- Member of Isfahan University of Technology team in sport festival for scientific elite students, Nov 2008.