



Behrooz Alizadeh

Professor

College: Faculty of Basic Sciences

## BEHROOZ ALIZADEH

PhD (Dr. Techn.)

Full Professor of Applied Mathematics

(Operations Research & Optimization)

Vice President of Iranian Operations Research Society



### Personal Information:

**Name:** Behrooz Alizadeh

**Date of Birth:** 22/06/1977

**Nationality:** Iranian

**Hometown:** Tabriz

**Current Official Address:**

Department of Applied Mathematics,  
Faculty of Basic Sciences,  
Sahand University of Technology,  
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### Research Interests:

+ Operations Research & Applied Optimization:

Optimal Location / Allocation Theory on Networks and Space, Combinatorial Optimization, Network Optimization, Discrete Optimization, Inverse/Reverse Optimization, Improvement Optimization, Knapsack Problems, Fuzzy Mathematical Programming Models, Uncertain optimization, Engineering Optimization, Design of Industrial Systems, Meta-Heuristic and Hyper-Heuristic Algorithms, Design of Algorithms, Scientific and Soft Computing

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### Education:

- **Postdoctoral Fellow**, Institute of Optimization and Discrete Mathematics, Graz University of Technology, Graz, Austria, Dec. 2009- Apr. 2010.
  - **Ph.D (Dr. techn.)**, Applied Mathematics ( Operations Research & Optimization), Graz University of Technology, Graz, Austria, Apr. 2006- Dec. 2009
  - **M.Sc**, Applied Mathematics( Operations Research), Tarbiat Modarres University, Tehran, Iran, 1999-2001
  - **B.Sc**, Applied Mathematics, University of Tabriz, Tabriz, Iran, 1995-1999
  - **High School Diploma**, Mathematics and Physics, Ferdowsi High School, Tabriz, Iran, 1991-1995
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### Academic Positions and Experiences:

- **Full Professor**, of Operations Research & Optimization, Department of Mathematics, Sahand University of Technology, Tabriz, Iran, 1 May 2021 - current
  - **Associate Professor**, Department of Mathematics, Sahand University of Technology, Tabriz, Iran, 17 September 2016 - 1 May 2021
  - **Assistant Professor**, Department of Mathematics, Sahand University of Technology, Tabriz, Iran, Apr. 2010- 17 September 2016
  - **Postdoctoral( PosDoc) Researcher**, Institute of Optimization, Graz University of Technology, Graz, Austria, Dec. 2009- Apr. 2010
  - **Research Assistant**, Institute of Optimization, Graz University of Technology, Graz, Austria, Apr. 2006- Dec. 2009
  - **Lecturer**, Department of Mathematics, Sahand University of Technology, Tabriz, Iran, Feb. 2002- Apr. 2006
  - **Sessional Lecturer**, Payame Noor University of Bonab, Iran, 2000- Feb.2002
  - **sessional Instructor**, Computer training center of the Islamic Society of Students, University of Tabriz, Iran, 1996-1999
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### Administrative positions:

- **Head of the Faculty of the Basic Science**, Sahand University of Technology, Sept. 2024-current
- **Vice president** of Iranian Operations Research Society, April 2024-current
- **Head of Planning & Budget Office**, Sahand University of Technology, Sept. 2020-10 Jan. 2023
- **Head of Faculty of E-learning & Open Training**, at the Sahand University of Technology, February 2016-December 2019
- **Member of Board of Directors**, Iranian Operations Research Society, May 2013-current
- **Head of the Scholarship Affairs Office**, at the Sahand University of Technology, Sept. 2014-

February 2016

- **Vice-Chancellor**, Design and Planning Office, Sahand University of Technology, Tabriz, Iran, Aug. 2002-Apr. 2006
  - **Center Supervisor**, Computer and Internet Center of Tarbiat Modarres University, Tehran, Iran, 1999-2001
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### Other Organizing/Administrative Experiences:

- Member of the Measurement and Quality Assurance Council, at the Sahand University of Technology, Oct. 2024 – current
  - Secretary of Productivity Committee, at the Sahand University of Technology, Feb. 2022-current
  - Member of the Specialized Committee for Basic Sciences, Sahand University of Technology, November 2018-current
  - Deputy of Iranian Operational Research Society at the Sahand University of Technology, 2011-current
  - Member of Informatics Council, Sahand University of Technology, September 2014-November 2019
  - Deputy of Iranian Fuzzy Systems Society at the Sahand University of Technology, 2011-current
  - Administrator of Examinations Affairs, Faculty of Sciences, Sahand University of Technology ,Tabriz, Iran, Summer- Semester 2009-2010.
  - Organizer of Information Technology ( IT ) Program for Employees, SahandUniversity of Technology ,Tabriz, Iran, 2003 - 2006.
  - Administrator of Examinations Affairs, Faculty of Sciences, Sahand University of Technology ,Tabriz, Iran, Winter- Semester 2004-2005.
  - Organizer of Home Page (Web Site) Designing for Faculty of Sciences, Sahand University of Technology ,Tabriz, Iran, 2003-2004
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### Awards & Distinctions:

- Distinguished Researcher of the Faculty of Basic Sciences, Sahand University of Technology, 2021
  - Distinguished Researcher of the Faculty of Basic Sciences, Sahand University of Technology, 2018
  - Distinguished Researcher of the Faculty of Basic Sciences, Sahand University of Technology, 2015
  - Winner of Post-Doctoral Fellow for one Semester from Institute of Optimization, Graz University of Technology, Austria
  - Distinguished Ph.D Graduate at the Graz University of Technology, Austria ( **Formally Awarded by the TUG University**)
  - Winner of Ph.D Studying Fellows for 3.5 years from SUT and TUG Universities.
  - Second ranked M.Sc Graduate of Applied Mathematics at the Tarbiat Modarres University, Tehran, Iran
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### Conference Organization:

- Session Chairman in 5th Iranian Conference on Fuzzy Systems, Tehran, Iran, 2004
- Member of the Scientific Committee, 5th International Conference of Iranian Operations research Society, Tabriz, Iran, 2012
- Session Chairman in 5th International Conference of Iranian Operations research Society, Tabriz, Iran, 2012
- Session Chairman in 43th Iranian Annual Mathematics Conference, Tabriz, Iran. Sept. 2013
- Session Chairman in 6th International Conference of Iranian Operations research Society, Tehran, Iran, 2013
- Member of the Scientific Committee, 7th International Conference of Iranian Operations research Society, Semnan, Iran, 2014
- Scientific Committee Chair, 14th Iranian Conference on Fuzzy Systems, Sahand University of Technology, Tabriz, Iran, 2014
- Member of the Scientific Committee, 8th International Conference of Iranian Operations Research Society, Mashhad, Iran, 2015
- Session Chairman in 8th International Conference of Iranian Operations Research Society, Mashhad, Iran, 2015
- Member of the Scientific Committee, 7th International Conference on Information and Knowledge Technology, Urmia, 2015
- Member of the Scientific Committee, 7th national Conference on Mathematics, Payame Noor University, Tabriz, October 2015
- Member of the Scientific Committee, National Conference on Optimization and Decision Making, University of Mazandaran, Babolsar, March 2016
- Member of the Scientific Committee, 9th International Conference of Iranian Operations Research Society, Shiraz University of Technology, Shiraz, May 2016
- Member of the Scientific Committee, 4th International Reliability Engineering Conference , Sahand University of Technology, 2016
- Member of the Scientific Committee, 3th National Conference on Mathematical Modeling in Operations Research, University of Mazandaran, Dec. 2016
- Member of the Scientific Committee, 10th International Conference of Iranian Operations Research Society, Babolsar, Iran, 2017.
- Member of the Scientific Committee, 11th International Conference of Iranian Operations Research Society, Kermanshah,Iran, 2018
- Member of the Scientific Committee, 9th International Conference on Fuzzy Information and Engineering, Kish Island, February 2019
- Member of the Scientific Committee, 12th International Conference of Iranian Operations Research Society, babolsar,Iran, 2019
- Member of the Scientific Committee, 13th International Conference of Iranian Operations Research Society, Shahrood,Iran, 2020
- Member of the Scientific Committee, 5th Seminar on Nonlinear Analysis and Optimization, Tabriz, May 2022
- Member of the Scientific Committee, 14th International Conference of Iranian Operations Research Society, Mashhad,Iran, 2021
- Member of the Scientific Committee, Seminar on Industrial and Applied Mathematics, Ferdowsi University, Mashhad, 2022.
- Member of the Scientific Committee, 53th Annual Iranian Mathematics Conference, Behshahr, September 2022
- Member of the Scientific Committee, 15th International conference of Iranian Operations Research Society, Tabriz, October 2022
- Member of the Scientific Committee, 16 International Conference of Iranian Operations Research Society, Ramsar, Oct. 2023

- Member of the Scientific Committee, 17 International Conference of Iranian Operations Research Society, Tehran, July 2024
  - Member of the policy Committee, 17 International Conference of Iranian Operations Research Society, Tehran, July 2024
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### Membership in Scientific Society:

- Member of European Chapter on Combinatorial Optimization, Association of European Operational Research Societies (EURO), 2008-Current
  - Member of Working Group on Locational Optimization, EURO, 2007-Current
  - Member of EWG ORD-Operational Research for Development Working Group, EURO, 2007-Current
  - Member of Iranian Operations Research Society, 2010-current
  - Member of Iran Institute of Industrial Engineering, 2004-Current
  - Member of Iranian Mathematical Society, 2010-Current
  - Member of Iranian Fuzzy Systems Society, 2005-Current
  - Member of International Association of Engineers (IAENG), 2010-Current
  - Member of IAENG Industrial Engineering Society and IAENG Operations Research Society, April 2024-current
  - Member of IAENG Computer Science Society , April 2024-current
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### Courses Taught:

#### **B.Sc Courses:**

[Differential Equations](#), [Mathematics II](#) , [Probability & Statistics for Engineers](#) , [Numerical Computation](#) , [Systems Engineering](#) , Combinatorial Optimization and Network Analysis , Nonlinear Optimization, Graph Theory and Its Applications

#### **M.Sc Courses:**

[Advanced Operations Research](#) , [Advanced Algorithms for Engineers](#) , Nonlinear Optimization , Advanced Combinatorial Optimization I , [Queueing Systems](#) , Optimization Theory for Computer Engineering , Advanced Mathematical Programming , Multiple Objective Optimization , Location Theory

#### **Ph.D Courses:**

Algorithms and Data Structures , Nonlinear Optimization , Facility Location Models , Advanced Combinatorial Optimization II, New Methods in Mining Exploration , Linear and Nonlinear Programming , Modern Topics in Facility Location Theory , Advanced Optimization Algorithms for Mining Engineering

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### Supervised Student Thesis:

The list of Supervised PstDoctoral, PhD, M.Sc and B.Sc Thesis can be found at the link [Supervised Thesis](#).

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## Publications:

See the complete list of my publications, through the following links:

[Journal Publications.](#)      [Conference Publications / Presentations](#) ,      [Book Publications](#)

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## Editorial Board Membership

- Editorial Board Member of Journal of Advanced Mathematical Modeling (JAMM), September 2023-current
  - Editorial Board Member of Modern Research in Performance Evaluation (in Persian), August 2021-current
  - Editorial Board Member of Journal of Fuzzy Extension and Applications, Sept. 2020-current
  - Editorial Board Member of Journal of Applied Mathematics and Computation, Apr. 2020-current
  - Editorial Board Member of Journal of Advances in Applied & Computational Mathematics, Apr. 2020-current
  - Editorial Board Member of Modern Mathematics and Physics: Theory and Applications, Apr. 2020-current
  - Editorial Board Member of Communications in Combinatorics and Optimization, December 2018-current
  - Editorial Board Member of the Journal of Decision Making and Operations Research (in persian), Dec. 2017-current
  - Editorial Board Member of the Scientific Newsletter of the Iranian Operations Research Society, 2014- current
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## Referee for Journals/Databases

- Mathematical Reviews (**MathSciNet**)- American Mathematical Society
- Central European Journal of Operational Research
- Journal of Mathematical Modeling and Algorithms
- Iranian Journal of Operations Research
- Journal of Optimization Theory and Applications
- American Journal of Operations Research
- International Transactions on Operational Research
- International Journal of Physical Sciences
- Discrete Optimization
- Computers in Industry
- Iranian Journal of Science and Technology, Transactions on Electrical Engineering
- Optimization
- Journal of Combinatorial Optimization
- ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering
- Journal of Mathematical Modeling
- Journal of Computational Methods in Sciences and Engineering
- Cogent Mathematics

- Journal of Operations Research and Applications (in persian)
- Asian-European Journal of Mathematics
- Applications and Applied Mathematics: An International Journal
- Discrete Applied Mathematics
- Optimization Methods and Software
- Mathematical Methods of Operations Research
- Acta Mathematica Vietnamica
- OPSEARCH
- Communications in Combinatorics and Optimization
- Fuzzy Information and Engineering
- Journal of Global Optimization
- Networks
- Journal of Mathematics and Computer Science
- Journal of Production and Operations Management
- Inverse Problems in Science & Technology
- Iranian Journal of Numerical Analysis and Optimization
- Journal of Algorithms and Optimization
- Iranian Journal on Management Studies
- Journal of Nonlinear Systems in Electrical Engineering
- Journal of Computational and Applied Mathematics
- International Journal of Industrial Electronics, Control and Optimization
- Filomat
- Journal of Industrial and Management Optimization
- Annals of Operations Research
- Journal of Applied Mathematics and Computation (Hillpublisher)
- Bulletin of Iranian Mathematical Society
- Control and Optimization in Applied Mathematics
- Journal of Decisions and Operations Research
- Computers and Operations Research
- Journal of Advances in Applied & Computational Mathematics
- Scientia Iranica
- Vietnam Journal of Mathematics
- Engineering Applications of Artificial Intelligence
- AUT Journal of Mathematics and Computing
- International Journal of Computer Mathematics
- Applied Mathematics and Computation
- Applied Soft Computing
- Operations Research for Health Care
- Numerical Algorithms
- Computational Management Science

## Language Ability

Azerbaijani Turkish, Persian, English, German (Elementary level)