Mehdi Zaferanieh

Resume

Current Position

2009 Until Now Faculty Member, Hakim Sabzevari University, Faculty of Mathematics and Computer Science.

2013 to 2016 Chief of Education, Hakim Sabzevari University.

Education

1998-2002 B.Sc., Shahid Bahonar University of Kerman, Kerman, Iran.

Mathematics (with Operatrions Research specialization)

2002-2004 M.Sc., Ferdowsi University of Mashhad, Mashhad, Iran.

Operations Research

2004-2008 Ph.D., Ferdowsi University of Mashhad, Mashhad, Iran.

Operations Reseach

Areas of Expertise

o Facility Location and its application

• Network optimization

• Transportation Operations

Information Theory

o Game Theory

Multicriteria Optimization

o Traffic Counts

o Linear and Nonlinear Programming

Courses Taught

- o Operations Research I,II
- Network flows and integer programming Nonlinear optimization
- o Multicriteria optimization
- Advanced linear programming
- Combinatorial optimization
- o Optimization in computer science
- Engineering mathematics
- Adavanced operations researchI,II
- o Programming Languages

Skills & Experiences

C and C++, GAMS, CPLEX, MATLAB, IATEX, Microsoft Office (Word, Excel, Access, OutLook, Power-Point), WinEdt, TeXMaker, XePersian.

Professional Activities

- Member of the Iranian Society of Mathematics.
- Member of the Iranian Operations Research Society

https://en.ims.ir/ https://iors.ir/

- o Some completed projects in Hakim Sabzevari University,
- Some lectures and workshops

Journal Publications

- M. Zaferanieh, H. Taghizadeh Kakhki, J. Brimberg and G.O. Wesolowsky. A BSSS algorithm for the single facility location problem in two regions with different norms, European Journal of Operational Research, 2008
- J. Fathali, M. Zaferanieh and Ahmad Nezakati. A BSSS Algorithm for the Location Problem with Minimum Square Error, Advances in Operations Research, http://dx.doi.org/10.1155/2009/212040, 2009.
- J. Fathali, M. Zaferanieh. Location problems in regions with lp and block norms, Iranian Journal of Operations Research. 2011
- M. Zaferanieh, J. Fathali. Finding a core of a tree with pos/neg weight. Mathematical Methods of Operations Research, 2012
- M. Abareshi, M. Zaferanieh and B. Keramati. Path Flow Estimator in an Entropy Model Using a Nonlinear L-Shaped Algorithm. Networks and Spatial Economics, 2017, 293-315.
- o S. Motevalli, J. Fathali and M. Zaferanieh. An efficient algorithm for finding the semi-obnoxious (k; l)-core of a tree, Journal of Mathematical Modeling, 2016.
- M. Abareshi, M. Zaferanieh, M. R. Safi . Origin-Destination Matrix Estimation Problem in a Markov Chain Approach. Networks and Spatial Economics. 2019:1-28.
- M. Abareshi and M. Zaferanieh, A mixed planar approach for estimating the origin-destination matrix in large scale networks, Journal of Operational Research in Its Applications, 2018.
- M. Abareshi, M. Zaferanieh, The single facility location problem with discrete demand weights and travel times, Iranian Journal of Numerical Analysis and Optimization, 2019.
- M. Zaferanieh, M. Abareshi, A, A bi-level capacitated P-median facility location problem with the most likely allocation solution, Transportation Research Part B: Methodological, 2019, 123, 1-20.
- S. Safari, M. Zaferanieh, M. Abareshi, E. L. Rahimi, The Lagrangian relaxation method for the shortest path problem considering transportation plans and budgetary constraint, Journal of Operational Research in its Applications, 2019

Journal Publications: Under Review or in Revision

- The 2-median and 2-maxian problems with balancing on allocation to servers in a tree, Submitted to OR spektrum, Under Review.
- A maximum entropy bi-level model to estimate the most probable demands of nodes for the *P*-median problem, Submitted to Transportation Research Part B: Methodological, Under Review.
- \circ uncapacits ated p-median facility location problem in a minimum information approach, Submitted to operations research letters.

Conference Publications

- M. Zaferanieh, H.T. Kakhki, J. Brimberg and G.O. Wesolowsky. The single facility location problem in two regions with different norms, VOCAL 2006, Veszprem, Hungary, Dec 13-15, 2006.
- M. Zaferanieh and S. Habibnia. A fuzzy core problem on a tree with pos neg weights, 40th Annual Mathematics Conference, Sharif University of Technology, Tehran 2009.
- o M. Mosayebi and M.Zaferanieh. Voronoi diagrams in a region with varying norms, IPM 2011.
- M. Zaferanieh and M. Abareshi, The network median problem with discrete demand weights and travel times, 5th conference on ISOR, Tabriz, Iran 2012.
- M. Abareshi, M. Zaferanieh and B. Keramati. Least square approac for estimating the approach for estimating the stochastic OD matrix of a network, 44th Annual Mathematics Conference, Ferdowsi university of Mashhad, Iran 2013.
- M. Abareshi and M. Zaferanieh. A deterministic O-D matrix for a stochastic network using an LS approach,
 44th Annual Mathematics Conference, Ferdowsi university of Mashhad, Iran 2013.
- o M. Rezazadeh, M. Zaferanieh and M. AminToosi, The p-hub facility location in M/G/1 queuing systems, 45th Annual Mathematics Conference, Seman university, Iran 2014.
- S. Shahi, M. AminToosi and M. Zaferanieh. Comparing three methods in uncapaciated facility location problem, 7th conference on ISOR, Semnan university, Iran 2014.
- R. Hamedi, M. AminToosi and M. Zaferanieh, Using block norms in sparse super resolution, 3th International Conference on Pattern Recognition and Image Analysis, Shahrekord university, 2017.
- M. AminToosi, S. Khorsandi and M. Zaferanieh, Evaluating extreme learning machine in image segmentation, 3th International Conference on Pattern Recognition and Image Analysis, Shahrekord university, 2017.

Program Committees & Technical Reviewer

- o Iranian Operations Research Society Conference 2015, Ferdowsi University of Mashhad.
- o Iranian Operations Research Society Conference 2015, Semnan University.
- o Iranian Operations Research Society Conference 2012, Shahid Madani University.
- o Annual Iranian Mathematics Conference 2016, Kharazmi university of Tehran.
- o Annual Iranian Mathematics Conference 2014, Semnan university.
- o Annual Iranian Mathematics Conference 2013, Ferdowsi University of Mashhad.
- Reviewer of Journal of Operational Research in Its Applications.
- Reviewer of International journal of production research.
- o Reviewer of Neural computing and applications.