

Jafar Fathali

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Associate Professor

Faculty of Mathematical Science, Shahrood University of Technology,
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Fields of Research

Operations Research, Location Theory, Scheduling Problem, Heuristic Methods for Optimization Problems.

Educations

BSc in Applied Mathematics, Ferdowsi University of Mashhad, Iran, 1996.

MSc in Applied Mathematics, Amirkabir University of Technology, Iran, 1999.

Ph.D in Applied Mathematics, Ferdowsi University of Mashhad, Iran, 2005.

Teaching Experiences

Operations Research I & II, Advanced Operations Research I & II,

Advanced Linear Programming, Nonlinear Programming, Numerical Analysis I,

Advanced Numerical Analysis, Calculus I, Differential Equation, Location Theory, Combinatorial Optimization.

Societies Membership

Iranian Mathematical Society, Iranian Operations Research Society,

Iranian Statistics Society.

Referee for Journals

European Journal of Operational Research, Computers & Operations Research, Discrete Applied Mathematics, Optimization Methods and Software, Journal of Computational and Applied Mathematics, Applied Mathematics Letters, Neural Computing and Applications, International Journal of Operations Research, Journal of Advanced Research in Computer Science.

Publications

- 1- Fathali J. and H. T. Kakhki, "Solving the p-Median Problem with Pos/Neg Weights by Variable Neighborhood Search and Some Results for Special Cases", European Journal Of Operational Research, 170: 440-462, 2006.
- 2- Fathali J., H. T. Kakhki and R. E. Burkard, "An ant colony algorithm for the pos/neg weighted p-median problem." Central European Journal Of Operations Research, 14: 229-246, 2006.
- 3- Fathali J. "A genetic algorithm for the p-median problem with pos/neg weights", Applied Mathematics and Computation, 183: 1071-1083, 2006.
- 4- Burkard R. E., J. Fathali and H. T. Kakhki, " The p-maxian problem on a tree." Operations Research Letters, 35: 331-335, 2007.
- 5- Burkard R. E., J. Fathali, "A polynomial method for the pos/neg weighted 3-median problem on a tree", Mathematical Methods of Operations Research, 65: 229-238, 2007.
- 6- Fathali J., M. Zaferanieh, A. Nezakati, "A BSSS algorithm for the location problem with minimum square error", Advances in Operations Research, 2009, 10 pages.
- 7- Zaferanieh M., J. Fathali, "Ant colony and simulated annealing algorithms for finding the core of a graph", World Applied Science Journal, 7 (10): 1335-1341, 2009.

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- 8- Jamalian A., J. Fathali, "Linear Programming for the Location Problem with Minimum Absolute Error", *World Applied Science Journal*, 7(11): 1423-1427, 2009.
- 9- Mirjalali F., Fathali J., "Location of the Airport of Semnan Province by Using TOPSIS and Center Problem", *Journal of Transportation Research*, Vol 6, No 4, pp. 341-450, 2010.
- 10- Fathali J., Jafari Rad N., Rahimi Sherbaf S., "Unweighted p-center problem on extended stars", *Iranian Journal of Optimization*, Vol 2, No 1, 2010.
- 11- Fathali J., Zaferanieh M., "Location problems in regions with l_p and block norms", *Iranian Journal of Operations Research*, Vol 2, No 2, pp. 72-87, 2011.
- 12- Zaferanieh M., J. Fathali, "Finding a core on a tree with pos/neg weight", *Mathematical Methods of Operations Research*, 76: 147-160, 2012.
- 13- Fathali J., Jamalian A., "Locating Multiple Facilities in Convex Sets with Fuzzy Data and Block Norms", *Applied Mathematics*, 3: 1950-1958, 2012.
- 14- Golpayegani M., Fathali J., Khosravian E., "Median line location problem with positive and negative weights and Euclidean norm", *Neural Computing and Applications*, 24: 613-619, 2014.
- 15- Fathali J., Jafari Rad N. and Rahimi Sherbaf S., "The p-median and p-center problems on bipartite graphs", *Iranian Journal of Mathematical Sciences and Informatics*, Vol 9, No 2: 34-43, 2014.
- 16- Ziyaneloo S., Fathali J., "Conditional p-maxian problem on networks", *The Journal of Mathematics and Computer Science*, Vol 8, No 3, pp. 258-264, 2014.
- 17- Fathali J., "Backup multifacility location problem with l_p norm", *OPSEARCH*, vol 52, NO. 2, pp. 382-391, 2015.
- 18- Motevalli S., Fathali J., Zaferanieh M., "An efficient algorithm for finding the semi-obnoxious (k,l)-core of a tree", *Journal of Mathematical Modeling*,

Vol 3, No 2, pp. 129-144, 2016.

19- Taleshian F., Fathali J., "A Mathematical Model for Fuzzy p -Median Problem with Fuzzy Weights and Variables", *Advances in Operations Research*, Article ID 937868, 2016.

20- Motevalli S., Fathali J., "A Linear Algorithm for Finding Core of Weighted Interval Trees", *Journal of Operational Research and Its Applications* 13 (2), 101-111, 2016.

21- Rahbari M., Fathali J., Mortazavi R., "A hybrid algorithm for the path center problem" *Global Analysis and Discrete Mathematics*, 1 (2), 83-92, 2016

22- Golpayegani M., Fathali J., Moradi H., "A particle swarm optimization method for semi-obnoxious line location problem with rectilinear norm", *Computers & Industrial Engineering*, 109: 71-78, 2017.

23- Fathali J., Jamalian A., "Efficient methods for goal square Weber location problem" *Iranian Journal of Numerical Analysis and Optimization* 7 (1), 65-82, 2017.

24- Moshtagh M., Fathali J., Smith J.M.G., "The Stochastic Queue Core problem, evacuation networks, and state-dependent queues", *European Journal of Operational Research*, 269 (2), 730-748, 2018.

25- Taleshian F., Fathali J., Taghi-nezhad N. A., "Fuzzy majority algorithm for finding the median of a fuzzy tree", *Fuzzy Information and Engineering*, 10 (2), 225-248, 2018.

26- Erfani K., Rahimi S., Fathali J., "New variable neighborhood search method for minimum sum coloring problem on simple graphs", *Iranian Journal of Numerical Analysis and Optimization*, 8 (2), 39-54, 2018.

27- Nazari M., Fathali J., Nazari M., Varedi-Koulaei S. M., "Inverse of Backup 2-Median Problems with Variable Edge Lengths and Vertex Weight on Trees and Variable Coordinates on the Plane", *Production and Operations Management*, 9 (2), 115-137, 2018.

28- Nazari M., Fathali J., "Reverse backup 2-median problem with variable coordinate of vertices", *Journal of Operational Research and Its Applications*, 15 (2), 63-88, 2018.

29- Moshtagh M., Fathali J., Smith J. M.G., Mahdavi-Amiri N., "Finding an

optimal core on a tree network with $M/G/c/c$ state-dependent queues",
Mathematical Methods of Operations Research, In Press, 2018.