Chapter 11

Bibliography

## Bibliography

- [1] Appa M. (1973), The Transportation problem and its variants, Operational Research Quarterly, 24(1), 79-99.
- [2] Adlakha V. and K. Kowalski (2003), A simple heuristic for solving small fixed-charge transportation problems, OMEGA: The International Journal of Managment Science, 31, 205-211.
- [3] Aliev R., W. Pedrycz, B. Guirimov, R. R. Aliev, U. Ilhan, M. Babagil and S. Mammadli (2011), Type-2 fuzzy neural networks with fuzzy clustering and differential evolution optimization, Information Sciences, 181(9), 1591-1608.
- [4] Arsham H. and A.B. Khan (1989), A simplex-type algorithm for general transportation problems: an alternative to stepping stone, Journal of Operational Research Society, 40, 581-590.
- [5] Abbasbandy S. and T. Hajjari (2009), A new approach for ranking of trapezoidal fuzzy numbers, Computer and Mathematics with Applications, 57, 413-419.
- [6] Almaatani D., S. Diagne, Y. Gningue and P. Takouda (2015), Solving the Linear Transportation Problem by Modified Vogel Method, Modeling and Computational Science, 117, 13-19.
- [7] Amiri A. (2006), Designing a distribution network in a supply chain system: formulation and efficient solution procedure, Europian Journal of Operation Research, 171, 567-576.

- [8] Antony K. and C. Rajendran (2012), A genetic algorithm for solving the fixed-charge transportation model: Two stage problem, Computer and Operation Research, 39, 2016-2032.
- [9] Ardjmand E., William Young, Gary Weckman, Omid Sanei Bajgiran, Bizhan Aminipour and Namkyu Park (2016), Applying genetic algorithm to a new bi-objective stochastic model for transportation, location, and allocation of hazardous materials, Expert Systems with Applications, 51, 49-58.
- [10] Asady B. and A. Zendehnam (2007), Ranking fuzzy numbers by distance minimization, Applied Mathematical Model, 31, 2589-2598.
- [11] Basu M., B. B. Pal and A. Kundu (1994), An algorithm for finding the optimum solution of solid fixed charge transportation problem, Optimization, 31(3), 283-291.
- [12] Bellman E., L. Kalaba and L. A. Zadeh (1966), Abstraction and pattern classification, Journal of Mathematical Analysis and Applications, 13, 1-7.
- [13] Bellman E. and L. A. Zadeh (1970), Decision-making in a fuzzy environment, Management Science, 17(4), 141-164.
- [14] Bit A., M. P. Biswal and S. S. Alam (1993), An additive fuzzy programming model for multi-objective transportation problem, Fuzzy Sets and Systems, 57, 313-319.
- [15] Bit A. (2005), Fuzzy programming with hyperbolic membership functions for multiobjective capacitated solid transportation problem, The Journal of Fuzzy Mathematics, 13(2), 373-385.
- [16] Bit A., M. P. Biswal and S. S. Alam (1993), Fuzzy programming approach to multiobjective solid transportation problem, Fuzzy Sets and Systems, 57, 183-194.
- [17] Bortolan G. and R. Degani (1985), A review of some methods for ranking fuzzy subsets, Fuzzy Set and Systems, 15, 1-19.

- [18] Chakraborty A. and M. Chakraborty (2010), Cost-time Minimization in a Transportation Problem with Fuzzy Parameters: A Case Study, Journal of Transportation Systems Engineering And Information Technology, 10(6), 53-63.
- [19] Chanas S. and D. Kuchta (1996), A concept of the optimal solution of the transportation problem with fuzzy cost coefficients, Fuzzy Sets and System, 82, 299-305.
- [20] Chena L., Jin Peng and Bo Zhang (2017), Uncertain goal programming models for bicriteria solid transportation problem, Applied Soft Computing, 51, 49-59.
- [21] Cheng B. (2004), Group opinion aggregation based on a grading process: A method for constructing triangular fuzzy numbers, Computers Mathematics with Applications, 48, 1619-1632.
- [22] Chen S., C. Y. Wang (2013), Fuzzy decision making systems based on interval type-2 fuzzy sets, Information Sciences, 242, 1-21.
- [23] Chen H. and C. H. Hsieh (2000), Representation. Ranking, Distance, and Similarity of L-R Type Fuzzy Number and Application, Australian Journal of Intelligent Information Processing Systems, 6, 217-229.
- [24] Chu H. and H. L. Kwang (1994), Ranking fuzzy values ewith satisfaction function, Fuzzy Sets and Systems, 64, 295-309.
- [25] Choobineh F. and H. Li (1993), An index for ordering fuzzy numbers, Fuzzy Sets and Systems, 54, 287-294.
- [26] Dalman H., Nuran Gzel and Mustafa Sivri (2016), A Fuzzy Set-Based Approach to Multi-objective Multi-item Solid Transportation Problem Under Uncertainty, International Journal of Fuzzy Systems, 18(4), 716-729.
- [27] Dantzig B. (1951), Application of the simplex method to a transportation problem, Chapter XXII in Activity Analysis of Production and allocation (T.C. Koopmans, Ed.), Wiley, New York.

- [28] Das K., A. Goswami and S. S. Alam (1999), Multi-objective transportation problem with interval cost, source and destination parameters, European Journal of Operational Research, 117, 100-112.
- [29] Deb K., A. Pratap, S. Agarawal and T. Meyarivan (2002), A fast and elitist multiobjective genetic algorithm: NSGA-II, IEEE Transactions on Evolutionary computation, 182-197.
- [30] Dias O. (1993), Ranking alternatives using fuzzy numbers: A computational approach, Fuzzy Sets and Systems, 56, 247-252.
- [31] Dubois D. and H. Prade (1980), Fuzzy sets and system Theory and application, Academic, New York.
- [32] Dubois D. and H. Prade (1983), Ranking Fuzzy numbers in the setting of Possibility Theory, Information Sciences, 30, 183-224.
- [33] Dubois D. and H. Prade (1988), Possibility theory: An approach to computerized processing of uncertainty, New York: Plenum.
- [34] Dubois D. and H. Prade (1997), The three semantics of fuzzy sets, Fuzzy Sets and Systems, 90, 141-150.
- [35] Fazel M., A. D. Torshizi, I. B. Turksen and B. Rezaee (2013), A new indirect approach to the type-2 fuzzy systems modeling and design, Information Sciences, 232, 346-365.
- [36] Fortemps P. and M. Roubens (1996), Ranking and defuzzification methods based on area compensation, Fuzzy Sets and Systems, 82, 319-330.
- [37] Garg R. and Saurabh mittal (2014), Optimization by Genetic Algorithm, International Journal of Advanced Research in Computer Science and Software Engineering, 4(4), 587-589.

- [38] Gao P. and S. Y. Liu (2004), Two-phase fuzzy algorithms for multi-objective transportation problem, The Journal of Fuzzy Mathematics, 12(1), 147-155.
- [39] Gass I. (1990), On solving the transportation problem, Journal of Operational Research Society, 41, 291-297.
- [40] Gen M., F. Altiparmak and L. Lin (2006), A genetic algorithm for two-stage transportation problem using priority- based encoding, Operation Research Spectrum, 28, 337-354.
- [41] Gen M., K. Ida and Y. Z. Li (1995), Solving multi-objective Solid Transportation Problem by Genetic Algorithm, Journal of Japan Industrial Management Association, 46(5), 446-454.
- [42] Geoffrion M. and G. W. Graves (1974), Multi commodity distribution system design by benders decomposition, Manage Science, 20, 822-844.
- [43] Giri K., M. K. Maiti and M. Maiti (2015), Fully fuzzy fixed charge multi-item solid transportation problem, Applied Soft Computing, 27, 77-91.
- [44] Giri K., M. K. Maiti and M. Maiti (2012), A solid transportation problem with fuzzy random costs and constraints, International Journal of Mathematics in Operational Research, 4(6), 651-678.
- [45] Golmohamadi S., Reza Tavakkoli-Moghaddam and Mostafa Hajiaghaei-Keshteli (2017), Solving a fuzzy fixed charge solid transportation problem using batch transferring by new approaches in meta-heuristic, Electronic Notes in Discrete Mathematics, 58, 143-150.
- [46] Goldberg D. (1989), Genetic Algorithems in Search, Obtimization and Machine Learning, Addision Wealey, MA, USA.
- [47] Grzegorzewski P. (2002), Nearest interval approximation of a fuzzy number, Fuzzy Sets and Systems, 130, 321-330.

- [48] Grzegorzewski P. and E. Mrwka (2007), Trapezoidal approximations of fuzzy numbers- revisited, Fuzzy Sets and System, 158, 757-768.
- [49] Geoffrion M. (1972), Generalised benders decomposition, Journal of Optimization Theory and Application, 10(4), 237-260.
- [50] Gu Q. and Zuxing Xuan 2017, A new approach for ranking fuzzy numbers based on possibility theory, Journal of Computational and Applied Mathematics, 309, 674-682.
- [51] Gupta G., Jagdeep Kaur and Amit Kumar (2016), A note on Fully fuzzy fixed charge multi-item solid transportation problem, Applied Soft Computing, 41, 418-419.
- [52] Haley B. (1962), The solid transportation problem, Operations Research, 11, 446-448.
- [53] Hasuike T. and H. Ishi (2009), A type-2 fuzzy portfolio selection problem considering possibilistic measure and crisp possibilistic mean value, IFSA-EUSFLAT, 1120-1125.
- [54] He Y. (2013), Generalized Interval-valued Atanassov's Intuitionistic Fuzzy Power Operators and Their Application to Multiple Attribute Group Decision Making, International Journal of Fuzzy Systems, 15, 401-411.
- [55] Hidalgo D., P. Melin and O. Castillo (2012), An optimization method for designing type-2 fuzzy inference systems based on the footprint of uncertainty using genetic algorithms, Expert Systems with Applications, 39(4), 4590-4598.
- [56] Hidalgo D., O. Castillo and P. Melin (2009), Type-1 and type-2 fuzzy inference systems as integration methods in modular neural networks for multimodal biometry and its optimization with genetic algorithms, Information Sciences, 179(13), 2123-2145.
- [57] Hitchcock L. (1941), The distribution of a product from several sources to numerous localities, Journal of Mathematical Physics, 20, 224-230.

- [58] Holland J. (1975), Adaptation in natural and artificial systems, University of Michigan press, Ann Arbor.
- [59] Hsieh H. (2005), Optimazition of Fuzzy Inventory Model under Fuzzy Demand and Fuzzy Lead Time, Tamsui Oxford Journal of Management Sciences, 20, 21-35.
- [60] Huang T. (2011), Fuzzy Multilevel Lot-sizing Problem Based on Signed distance and Centroid, International Journal of Fuzzy Systems, 13(2), 98-110.
- [61] Jain M. and P. K. Saksena (2012), Time Minimizing Transportation Problem With Fractional Bottleneck Objective Function, Yugoslav Journal of Operations Research, 22(1), 115-129.
- [62] Jain R. (1976), Decision-making in the presence of fuzzy variable, IEEE Transactions, SMC- 6, 698-703.
- [63] Jian X., Qingsheng Zhu and Yunni Xia (2016), An interval-based fuzzy ranking approach for QoS uncertainty-aware service composition, Optik International Journal for Light and Electron Optics, 127, 2102-2110.
- [64] Jimenez F. and J. L. Verdegay (1996), "Interval multiobjective solid transportation problem via Genetic Algorithms, Management of Uncertainty in Knowledge-Based Systems II, 787-792.
- [65] Jimenez F. and J. L. Verdegay (1998), *Uncertain solid transportation problems*, Fuzzy Sets and Systems, 100, 45-57.
- [66] Juman Z. and M. A. Hoque (2015), Modified Vogel's approximation method for the unbalanced transportation problem, Applied Soft Computing, 34, 813-826.
- [67] Kaufmann A. and M. M. Gupta (1991), Introduction to fuzzy arithmetic: theory and applications, Van Nostrand Reinhold, New York.
- [68] Karnik N. and J. M. Mendel (2001), Centroid of a type-2 fuzzy set, Information Sciences, 132, 195-220.

- [69] Kim J., Eunho L. Moon, Eunjin Jeong and Dug Hun Hong (2017), Ranking methods for fuzzy numbers: The solution to Brunelli and Mezei's conjecture, Fuzzy Sets and Systems, 315, 109-113.
- [70] Kirca O. and A. Satir (1990), A heuristic for obtaining an initial solution for the transportation problem, Journal of Operational Research Society, 41, 865-871.
- [71] Koopmans C. (1949), Optimum utilization of the transportation system, Econometrica, 17, 3-4.
- [72] Kowalski K. and B. Lev (2008), On step fixed charge transportation problem, OMEGA: The International Journal of Management Science, 36(5), 913-917.
- [73] Kundu P., S. Kar and M. Maiti (2015), Multi-item solid transportation problem with type-2 fuzzy parameters, Applied Soft Computing, 31, 61-80.
- [74] Kundu P., S. Kar and M. Maiti (2013), Multi-objective multi-item solid transportation problem in fuzzy environment, Applied Mathematical Modelling, 37, 2028-2038.
- [75] Lee S. and R. J. Li (1998), A new approach for ranking fuzzy numbers by distance method, Fuzzy Sets and Systems, 95, 307-317.
- [76] Li L. and K. K. Lai (2000), A fuzzy approach to the multi-objective transportation problem, Computers and Operation Research, 27, 43-57.
- [77] Li Y., K. Ida, M. Gen and R. Kobuchi (1997), Neural network approach for multicriteria solid transportation problem, Computers Industrial Engineering, 33, 465-468.
- [78] Li Y., K. Ida and M. Gen (1997), Improved Genetic Algorithm for Solving Multiobjective Solid Transportation Problem with Fuzzy Numbers, Computers Industrial Engineering, 33, 3-4, 589-592.
- [79] Li L. and K. K. Lai (2000), A fuzzy approach to the multi-objective transportation problem, Computers and Operation Research, 27, 43-57.

- [80] Liu B. and Y. K. Liu (2002), Expected value of fuzzy variable and fuzzy expected value models, IEEE Transactions on Fuzzy Systems, 10(4), 445-450.
- [81] Liu T. and C. Kao (2004), Solving fuzzy transoportation problems based on extension principle, European Journal of Operational Research, 153, 661-674.
- [82] Liu L. and L. Lin (2007), Fuzzy fixed charge solid transportation problem and its algorithm, Fuzzy Systems and Knowlege Discovery, 3, 585-589.
- [83] Liu T. (2006), Fuzzy total transportation cost measures for fuzzy solid transportation problem, Applied Mathematics and Computation, 174, 927-941.
- [84] Liu F. and J. M. Mendel (2008), Encoding words into interval type-2 fuzzy sets using an interval approach, IEEE Transactions on Fuzzy Systems, 16(6), 1503-1521.
- [85] Liu Q., Y. K. Liu (2010), Type-2 fuzzy variables and their arithmetic, Soft Computing, 14, 729-747.
- [86] Liu B. and K. Iwamura (1998), Chance constrained programming with fuzzy parameters, Fuzzy Sets and Systems, 94(2), 227237.
- [87] Liu B. and K. Iwamura (1998), A note on chance constrained programming with fuzzy coefficients, Fuzzy Sets and Systems, 100, 229-233.
- [88] Maiti A. and M. Maiti (2008), Discounted Multi-item Inventory model via Genetic Algorithm with Roulette Wheel Section, arithmetic crossover and uniform mutation in constraints bounded domains, International Journal of Computer Mathematics, 85(9), 1341-1353.
- [89] Liu F. (2008), An efficient centroid type-reduction strategy for general type-2 fuzzy logic system, Information Sciences, 178, 2224-2236.
- [90] Mahapatra S. and T. K. Roy (2006), Fuzzy multi-objective mathematical programming on reliability optimization model, Applied Mathematics and Computation, 174, 643-659.

- [91] Mamdani H. and S. Assilian (1975), An experiment in linguistic synthesis with a fuzzy logic controller, International Journal of Man-Machine Studies, 7, 1-13.
- [92] Mariajayaprakash A., T. Senthilvelan and R. Gnanadass (2015), Optimization of process parameters through fuzzy logic and genetic algorithm A case study in a process industry, Applied Soft Computing, 30, 94-103.
- [93] Martnez-Soto R., O. Castillo and L. T. Aguilar (2009), Optimization of interval type-2 fuzzy logic controllers for a perturbed autonomous wheeled mobile robot using genetic algorithms, Information Sciences, 179(13), 2158-2174.
- [94] Martnez J., R. I. John, D. Hissel and M. C. Pera (2012), A survey-based type-2 fuzzy logic system for energy management in hybrid electrical vehicles, Information Sciences, 190, 192-207.
- [95] Meiyi W., Li Xiang and Yu Lean (2015), Time-dependent fuzzy random location-scheduling programming for hazardous materials transportation, Transportation Research Part C: Emerging Technologies, 57, 146-165.
- [96] Melin P., O. Mendoza and O. Castillo (2010), An improved method for edge detection based on interval type-2 fuzzy logic, Expert Systems with Applications, 37(12), 8527-8535.
- [97] Melin P., O. Mendoza and O. Castillo (2011), Face Recognition With an Improved Interval Fuzzy Logic Sugeno Integral and Modular Neural Networks, IEEE Transactions on Systems, Man, and Cybernetics, Part A, 41(5), 1001-1012.
- [98] Mendel M. (2007), Computing with words and its relationships with fuzzistics, Information Sciences, 177, 988-1006.
- [99] Mendel M. and R. I. John (2002), Type-2 fuzzy sets made simple, IEEE Transactions on Fuzzy Systems, 10(2), 307-315.

- [100] Mendel M., R. I. John and F. L. Liu (2006), Interval type-2 fuzzy logical systems made simple, IEEE Transactions on Fuzzy Systems, 14(6), 808-821.
- [101] Mendel M. and H. Wu (2006), Type-2 fuzzistics for symmetric interval type-2, fuzzy sets: Part 1, forward problems, IEEE Transactions on Fuzzy Systems, 14(6), 781-792.
- [102] Mendel J. and R. I. John (2007), Advanced in type-2 fuzzy sets and systems, Information Sciences, 177(1), 84-110.
- [103] Michalewicz Z. (1996), Genetic Algorithms + Data structure = Evolution Programs, Springer-Verlag, Third, revised and extended ed.
- [104] Mitchell H. (2005), Pattern recognition using type-2 fuzzy sets, Information Sciences, 170, 409-418.
- [105] Mizumoto M. and K. Tanaka (1981), Fuzzy sets of type-2 under algebraic product and algebraic sum, Fuzzy Sets and Systems, 5(3), 277-280.
- [106] Nagoor A. and K. Abdul Razak (2006), Two stage fuzzy transportation problem, Journal of Physical Sciences, 10, 63-69.
- [107] Ojha A., B. Das, S. K. Mondal and M. Maiti (2010), A Solid Transportation Problem for an item with fixed charge, vechicle cost and price discounted varying charge using Genetic Algorithm, Applied Soft Computing, 10, 100-110.
- [108] Ojha A., B. Das, S. K. Mondal and M. Maiti (2013), A multi-item transportation problem with fuzzy tolerance, Applied Soft Computing, 13(8), 3703-3712.
- [109] Ojha A., S. K. Mondal and M. Maiti (2011), Transportation policies for single and multi-objective transportation problem using fuzzy logic, Mathematical and Computer Modelling, 53(9-10), 1637-1646.
- [110] Ojha A., B. Das, S. K. Mondal and M. Maiti (2009), An Entropy based Solid Transportation Problem for General Fuzzy costs and time with fuzzy equality, Mathematical and Computer Modelling, 50, 166-178.

- [111] Ojha A., B. Das, S. K. Mondal and M. Maiti (2010), A stochastic discounted multiobjective solid transportation problem for breakable items using analytical hierarchy process, Applied Mathematical Modeling, 34(8), 2256-2271.
- [112] Omar S. and Samir A. Abass (2003), A Parametric study on transportation problem under fuzzy environment, The Journal of Fuzzy Mathematics. 11(1), 115-124.
- [113] Pandian P. and G. Natarajan (2011), Two stage transportation problems. Control, Computation and Information Systems, 140, 159-165.
- [114] Pandian P. and G. Natarajan (2010), A new method for finding an optimal solution for transportation problems, International Journal of Mathematical Science and Englineering Applications, 4, 59-65.
- [115] Patra K. and S. K. Mondal (2012), Risk analysis in diabetes prediction based on a new approach of ranking of generalized trapezoidal fuzzy numbers, Cybernetics and Systems, 43, 623-650.
- [116] Pan Y. and Meng Joo Er (2013), Enhanced adaptive fuzzy control with optimal approximation error convergence, IEEE Transactions on Fuzzy Systems, 21(6), 1123-1132.
- [117] Pan Y., Meng Joo Er, Xiang Li, Haoyong Yu and Rafael Gouriveau (2014), Machine health condition prediction via online dynamic fuzzy neural networks, Engineering Applications of Artificial Intelligence, 35, 105-113.
- [118] Pramanik S. and Dipak Kumar Jana (2016), Bi-criteria solid transportation problem with substitutable and damageable items in disaster response operations on fuzzy rough environment, Socio-Economic Planning Sciences, 55, 1-13.
- [119] Palekar S., M. K. Karwan and S. Zionts (1990), A branch-and-bound method for the fixed charge transportation problem, Management Science, 36, 1092-1105.

- [120] Patel G. and J. Tripathy (1989), The solid transportation problem and its variants, International journal of Management and systems, 5, 17-36.
- [121] Pirkul V. (1998), A multi-commodity, multi-plant capacitated facility location problem: formulation and efficient heuristic solution, Computer and Operations Research, 25(10), 869-878.
- [122] Qin R., Y. K. Liu and Z. Q. Liu (2011), Methods of critical value reduction for type-2 fuzzy variables and their applications, Journal of Computational and Applied Mathematics, 235, 1454-1481.
- [123] Qiu Y., H. Yang, Y. Q. Zhang and Y. Zhao (2008), Polynomial regression intervalvalued fuzzy systems, Soft Computing, 12, 137-145.
- [124] Ross J. (2010), Development of membership functions, in Fuzzy logic with engineering applications, third eddition, Wiley, Chapter 6, 174-207.
- [125] Rajak S., P. Parthiban and R. Dhanalakshmi (2016), Sustainable transportation systems performance evaluation using fuzzy logic, Ecological Indicators, 71, 503-513.
- [126] Ramakrishnan S. (1988), An improvement to Goyal's modified VAM for the unbalanced transportation problem, Journal of the Operational Research Society, 39, 609-610.
- [127] Requena D. and J. I. Verdegay (1994), Automatic ranking of fuzzy numbers with the criterion of decision maker leant by an artificial neural network, Fuzzy Sets and Systems, 64, 1-9.
- [128] Ritha W. and J. Merline Vinotha (2009), Multiobjective two stage fuzzy transportation problem, Journal of Physical Sciences, 13, 107-120.
- [129] Rudolph G. (2001), Evolutionary Search under Partially Ordered Fitness Sets, in Proceedings of the International Symposium on Information Science Innovations in Engineering of Natural and Artificial Intelligent Systems (ISI), 818-822.

- [130] Sakawa M. and H. Yano (1986), Interactive fuzzy decision making for multiobjective nonlinear programming using augmented minimax problems, Fuzzy Sets and Systems, 20, 31-41.
- [131] Sakawaa M., Ichiro Nishizakia and Yoshio Uemurab (2001), Fuzzy programming and profit and cost allocation for a production and transportation problem, European Journal of Operational Research, 131(1), 1-15.
- [132] Sakawa M., K. Kato and H. Katagiri (2004), An interactive fuzzy satisficing method for multi-objective linear programming problems with random variables through a probability maximization model, Fuzzy Sets and Systems, 146, 205-220.
- [133] Samuel A. and M. Venkatachalapathy (2011), Modified Vogel's Approximation Method for Fuzzy Transportation Problems, Applied Mathematical Sciences, 5, 1367-1372.
- [134] Shaocheng T. (1994), Interval number and fuzzy number linear programmings, Fuzzy Sets and Systems, 66, 301-306.
- [135] Shafaat A. and S. K. Goyal (1988), Resolution of degeneracy in transportation problems, Journal of Operational Research Society, 39, 411-413.
- [136] Schell E. (1955), Distribution of a product by several properties, Proceedings of 2nd Symposium in Linear Programming, DCS/comptroller, HQ US Air Force, Washington DC, , 615-642.
- [137] Srinivas N. and K. Deb (1994), Multiobjective optimization using nondominated sorting in genetic algorithms, Journal of Evolutionary Computation, 2(3), 221-248.
- [138] Takac Z. (2013), Inclusion and subsethood measure for interval-valued fuzzy sets and for continuous type-2 fuzzy sets, Fuzzy Sets and Systems, 224, 106-120.

- [139] Tahayori H., A. G. B. Tettamanzi, G. D. Antoni, A.Visconti and M.Moharrer (2009), Concave type-2 fuzzy sets: properties and operations, Soft Computing, 14(7), 749-756.
- [140] Vasko F. and Nelya Storozhyshina (2011), Balancing a transportation problem: Is it really that simple?, OR Insight, 24(3), 205-214.
- [141] Verma R., M. P. Biswal and A. Biswas (1997), Fuzzy programming technique to solve multi-objective transportation problems with some non-linear membership functions, Fuzzy Sets and Systems, 91, 37-43.
- [142] Vignaux A. and Z. Michalewicz (1991), A genetic algorithm for the liner transpotation problem, IEEE Transactions on Systems, 21(2), 445-452.
- [143] Waiel F. and Abd El-Wahed (2001), A multi-objective transportation problem under fuzziness, Fuzzy Sets and Systems, 117, 27-33.
- [144] Waiel F., Abd El-Wahed and Sang M. Lee (2006), Interactive fuzzy goal programming for multi-objective transportation problems, OMEGA: The International Journal of Managment Science, 34, 158-166.
- [145] Wu D. and W. W. Tan (2005), Computationally efficient type-reduction strategies for a type-2 fuzzy logic controller, Proceedings of IEEE FUZZY Conference, Reno, NV, 353-358.
- [146] Yaghini M., Mohsen Momeni, Mohammadreza Sarmadi, Masoud Seyedabadi and Mohammad M. Khoshraftar (2015), A fuzzy railroad blocking model with genetic algorithm solution approach for Iranian railways, Applied Mathematical Modelling, 39(20), 6114-6125.
- [147] Yang L. and Linzhong Liu (2007), Fuzzy fixed charge solid transportation problem and algorithm, Applied Soft Computing, 7(3), 879-889.

- [148] Yang L., Pei Liu, Li Wang and Shukai Li (2014), A Solid Transportation Problem with Type-2 Fuzzy Variables, Applied Soft Computing, 24, 543-558.
- [149] Yang L., Pei Liu, Shukai Li, Yuan Gao and Dan A. Ralescu (2015), Reduction methods of type-2 uncertain variables and their applications to solid transportation problem, Information Sciences, 291, 204-237.
- [150] Yang L. and L. Liu (2007), Fuzzy fixed charge solid transpotation problem and algorithm, Applied Soft Computing, 7, 879-889.
- [151] Yao S. and K. We (2000), Ranking fuzzy numbers based on decomposition principle and signed distance, Fuzzy Sets and Systems, 116, 275-288.
- [152] Zadeh L. (1965), Fuzzy sets, Inf. Control 8, 338-353.
- [153] Zadeh L. (1968), *Probability measures of fuzzy events*, Journal of Mathematical Analysis and Applications, 23, 421-427.
- [154] Zadeh L. (1973), The concept of linguistic variable and its application to approximate reasoning, Memorandum ERL-M 411 Berkeley.
- [155] Zadeh L. (1978), Fuzzy sets as a basis for a theory of possibility, Fuzzy Sets and Systems, 1, 3-28.
- [156] Zeng J. and Z. Q. Liu (2007), Type-2 fuzzy sets for pattern recognition: the state-of-the-art, Journal of Uncertain Systems, 1, 163-177.
- [157] Zimmermann J. (1976), Description and Optimization of Fuzzy System, International Journal of General Systems, 2, 209-215.
- [158] Zimmermann H. J. (1978), Fuzzy programming and linear programming with several objective functions, Fuzzy Sets and Systems, 1, 45-55.
- [159] Zimmermann J. (1985), Application of fuzzy set theory to mathematical programming, Information Science, 36, 29-58.