## References

## References

- [1] J. A. Simpson and E. S. C. Weiner, The Oxford English Dictionary, Oxford: Oxford University Press, 1989.
- [2] N. D. Gershon, "From perception to visualization," in *In Scientific Visualization:*Advances and Challenges. Academic Press, Rosenblum, L, Earnshaw, R A, Encarnacao,
  J, Hagen, H, Kaufman, A, Klimenko, S, Nielson, G, Post, F, and Thalmann, D, editors.,
  1994.
- [3] W. L. Ang, "Data Structures and Algorithms (Quick Sort)," http://www.cs.auckland.ac.nz/~jmor159/PLDS210/qsort.html, 6 2011.
- [4] S. Diehl, Software visualization: Visualizing the Structure, Behaviour, and Evolution of Software, New York: Springer, 2007.
- [5] B. A. Price, R. M. Baecker and I. S. Small, "A principled taxonomy of software visualization," *Visual Languages and Computing*, vol. 4, no. 3, pp. 211-266, 1993...
- [6] A. Moreno, N. Myller, E. Sutinen and M. Ben-Ari, "Visualizing Program with Jeliot 3," *Proceedings of AVI 2004. Gallipoli : Italy*, p. 373–380, 2004.
- [7] L. M. Haibt, "A Program to Draw Multi-Level Flow Charts," *In Proceedings of the Western Joint Computer Conference*, vol. 15, pp. 131-137, 1959.
- [8] D. E. Knuth, "Computer-Drawn Flowcharts," *Communications of the ACM*, vol. 6, no. 9, pp. 555-563, 1963..
- [9] I. Nassi and B. Shneiderman, "Flowchart Technique for Structured Programming," *ACM SIGPLAN Notices*, vol. 8, no. 8, pp. 12-26, , & 1973...

- [10] P. Roy and R. S. Denis, "Linear Flowchart Generator for a Structured Language," *ACM SIGPLAN Notices*, vol. 11, no. 11, pp. 58-64, 1976..
- [11] H. F. Ledgard, Programming Proverbs, Rochell Park, NJ: Hayden, 1975.
- [12] K. C. Knowlton, "A Programmer's Description of L[6]," *Communications of the ACM*, vol. 9, no. 8, pp. 616-625, 1966.
- [13] R. M. Baecker, "Sorting Out Sorting. narrated colour videotape, 30 minutes," in presented at ACM SIGGRAPH '81 and excerpted in ACM SIGGRAPH Video Review #7, Los Altos, CA: Morgan Kaufmann, 1983.
- [14] M. H. Brown and R. Sedgewick, "Techniques for Algorithm Animation," *IEEE Software*, vol. 2, no. 1, pp. 28-39, 1985.
- [15] M. H. Brown, "Exploring Algorithms Using Balsa II," *IEEE Computer*, vol. 21, no. 5, pp. 14-36, 1988.
- [16] J. T. Stasko, "Tango: A Framework and System for Algorithm Animation," *IEEE Computer*, vol. 23, no. 9, pp. 27-39, 1990.
- [17] Brown, M H, Zeus, "A System for Algorithm Animation and Multi-View Editing," in : . In Proceedings of IEEE Workshop on Visual Languages, 4-9. IEEE Computer Society Press., New York, 1991.
- [18] R. A. Duisberg, "Animated graphical interfaces using temporal constraints," in *In Proceedings of the SIGCHI conference on Human factors in Computing systems, CHI* 86, pages 131–136, New York, USA, ACM., 1986.
- [19] J. T. Stasko., "Using student-built algorithm animations as learning aids," in *In The Proceedings of the 28th SIGCSE Technical Symposium on Computer Science Education, pages 25–29, San Jose, CA, USA*, ACM Press, New York, 1997.
- [20] J. T. Stasko, "TANGO: a framework and system for algorithm animation," *IEEE Computer*, vol. 23, pp. 27-39, 1990.

- [21] J. T. Stasko and J. F. Wehrli, "Three-dimensional computation visualization," *Proceedings of the 1993 IEEE Symposium on Visual Languages*, pp. 100-107, Aug 1993.
- [22] G. C. Roman and H. C. Cunningham, "Mixed Programming Metaphors in a Shared Data space Model of Concurrency," *IEEE Transactions on Software Engineering*, vol. 16, pp. 1361-1373, 1990.
- [23] C. D. Hundhausen and S. A. Douglas, "Low-fidelity algorithm visualization," *Journal of Visual Languages & Computing*, vol. 13, no. 5, pp. 449-470, October 2002.
- [24] W. C. Pierson and S. H. Rodger, "Web-based animation of data structures using JAWAA," in *In Proceedings of the 29th SIGCSE Technical Symposium on Computer Science Education, SIGCSE'98, pages 267–271*, Atlanta, GA, USA. ACM Press, New York., 1998.
- [25] A. Akingbade, T. Finley, D. Jackson, P. Patel and S. H. Rodger, "JAWAA: easy webbased animation from CS 0 to advanced CS courses," in *In Proceedings of the 34th SIGCSE technical symposium on Computer science education, SIGCSE'03, pages 162-166*, Reno, Navada, USA, ACM Press, 2003.
- [26] J. L. Bentley and B. W. Kernighan, "A System for Algorithm Animation," *Computing Systems*, vol. 4, no. 1, pp. 5-30, 1991.
- [27] V. Bonifaci, C. Demetrescu, I. Finocchi and L. La, "A Java-based system for building animated presentations over the Web Science of Computer Programming," vol. 53, no. 1, pp. 37-49, October 2004.
- [28] S. P. Lahtinen, E. Sutinen and J. Tarhio, "Automated Animation of Algorithms with Eliot," *Journal of Visual Languages and Computing*, vol. 9, no. 3, p. 337–349, 1998.
- [29] A. Moreno, N. Myller, E. Sutinen and M. Ben-Ari, "Visualizing Program with Jeliot 3," in *Proceeding of AVI 2004, pp. 373–380*, Gallipoli, Italy, 2004.
- [30] T. Rajala, M. J. Laakso, E. Kaila and T. Salakoski, "Effectiveness of Program

- Visualization: A Case Study with the ViLLE Tool," *Journal of Information Technology Education: Innovations in Practice*, vol. 7, 2008.
- [31] H. M. Deitel and P. J. Deitel, Java<sup>TM</sup> How to Program, New Jersey: Pearson Education international, Prentice Hall, 2005.
- [32] C. A. Coello Coello, D. A. Van Veldhuizen and G. B. Lamont, Evolutionary Algorithms for Solving Multi-Objective Problems, New York: Springer, Second Edition, 2007.
- [33] F. S. Hillier and G. J. Lieberman, Introduction to Operations Research, New York: The McGraw Companies, Seventh Edition, 2001.
- [34] A. Abraham, L. Jain and R. Goldberg, Evolutionary Multiobjective Optimization: Theoretical Advances and Applications, United States of America: Springer, 2005.
- [35] "http://www.mathworks.com/help/gads/what-is-multiobjective-optimization.html".
- [36] J. L. Ringuest and D. B. Rinks, "Interactive solutions for the linear multiobjective transportation problems," *European Journal of Operational Research*, vol. 32, pp. 96-106, 1987.
- [37] T. Imam, G. Elsharawy, M. Gomah and I. Samy, "Solving Transportation Problem Using Object-Oriented Model," *International Journal of Computer Science and Network Security*, vol. 9, no. 2, pp. 353-361, 2009.
- [38] D. Klingman and J. Mote, "Solution approaches for network flow problems with multiple criteria," *Advances in Management Studies*, vol. 1, pp. 1-30., 1982.
- [39] J. D. Schaffer, "Multiple Objective Optimization with Vector Evaluated Genetic Algorithms," in *In Genetic Algorithms and Their Applications: Proceedings of the First International Conference on Genetic Algorithms*, Lawrence Erlbaum, pp. 93-100, 1985.
- [40] C. M. Fonseca and P. J. Fleming, "Genetic algorithms for multiobjective optimization: Formulation, discussion and generalization," in *In Proceedings of the Fifth International Conference on Genetic Algorithms*, pp. 416-423, 1993.

- [41] J. Horn, N. Nafpliotis and D. E. Goldberg, "A Niched Pareto Genetic Algorithm for Multiobjective Optimization," in *In Proceeding of the First IEEE Conference on Evolutionary Computation, IEEE World Congress on Computational Intelligence*, Piscataway, New Jersey, IEEE Service Center, Vol. I, pp. 82-87, June 1994.
- [42] N. Srinivas and K. Deb, "Multiobjective Optimization Using Nondominated Sorting in Genetic Algorithms," *Evolutionary Computation*, vol. 2, no. 3, pp. 221-248, 1994.
- [43] D. E. Gold berg, Genetic Algorithms in Search, Optimization and Machine Learning, Reading, Mass: Addison Wesley, 1989.
- [44] K. Deb, A. Pratap, S. Agarwal and T. Meyarivan, "K. Deb, A. A Fast and Elitist Multiobjective Genetic Algorithm: NSGA-II," *IEEE Transactions on Evolutionary Computation*, vol. 6, no. 2, pp. 182-197, 2002.
- [45] E. Zitzler and L. Thiele, "Multiobjective Evolutionary Algorithms: A Comparative Case Study and the Strength Pareto Approach," *IEEE Transactions on Evolutionary Computation*, vol. 3, no. 4, pp. 257-271, November 1999.
- [46] M. Laumanns, L. Thiele, K. Deb and E. Zitzler, "Combining Convergence and Diversity in Evolutionary Multi-Objective Optimization," *Evolutionary Computation*, vol. 10, no. 3, pp. 263-282, 2002.
- [47] J. D. Knowles and D. W. Corne, "Approximating the Nondominated Front Using the Pareto Archived Evolution Strategy," *Evolutionary Computation*, vol. 8, no. 2, pp. 149-172, 2000.
- [48] J. N. Climaco, C. H. Antunes and M. J. Alves, "Interactive decision support for multiobjective transportation problems," *European Journal of Operational Research*, vol. 65, pp. 58-67, 1993.
- [49] S. Shin Wan and A. Ravindran, "Interactive mult-objective Optimization," *survey I-continuous case. Computers and Operations Research*, vol. 18, no. 1, pp. 97-114, 1991.
- [50] M. Tamiz, D. F. Jones and C. Romero, "Goal programming for decision making: an

- overview of the current state-of-the-art," *European Journal of Operational Research*, vol. 111, pp. 569-581, 1998.
- [51] W. Edwards, "How to use multiattribute utility measurement for social decision making," *IEEE Transactions on Systems, Man, and Cybernetics*, vol. 7, pp. 326-340, 1977.
- [52] H. J. Einhom and W. McCoach, "A simple multiattribute utility procedure for evaluation," *Behavioral Science*, vol. 22, pp. 270-282, 1977.
- [53] P. L. Yu and M. Zeleny, "Linear multiparametric programming by multicriteria simplex," *Managemenf Science*, vol. 23, pp. 159-170, 1976.
- [54] G. R. Reeves and L. S. Franz, "A simplified interactive multiple objective linear programming procedure," in *ORSA/TIMS Joint National Meeting (Computers and Operations Research)*, Orlando, Florida, 1983.
- [55] W. F. Abd El-Wahed, "A multi-objective transportation problem under fuzziness," *Fuzzy Sets and Systems*, vol. 117, pp. 27-33, 2001.
- [56] L. Lushu and K. K. Lai, "A fuzzy approach to the multiobjective transportation problem," *Computers & Operational Research*, vol. 27, pp. 43-57, 2000.
- [57] S. Chanas, W. Kolodziejckzy and A. A. Machaj, "A fuzzy approach to the transportation problem.," *Fuzzy Sets and Systems*, vol. 13, pp. 211-221, 1984.
- [58] A. K. Bit, M. P. Biswal and S. S. Alam, "Fuzzy programming approach to multicriteria decision making transportation problem," *Fuzzy Sets and Systems*, vol. 50, pp. 35-41, 1992.
- [59] A. K. Bit, M. P. Biswal and S. S. Alam, "Fuzzy programming approach to multiobjective solid transportation problem," *Fuzzy Sets and Systems*, vol. 57, pp. 183-194, 1993.
- [60] A. K. Bit, M. P. Biswal and S. S. Alam, "An additive fuzzy programming model for

- multiobjective transportation problem," *Fuzzy Sets and Systems*, vol. 57, pp. 13-19, 1993.
- [61] S. Chanas and D. Kuchta, "Fuzzy integer transportation problem," *Fuzzy Sets and Systems*, vol. 98, pp. 291-298, 1998.
- [62] M. Ehrgott and R. A. Verma, "Note on solving multicriteria transportation-location problems by fuzzy programming," *Asia-Pacific Operational Research*, vol. 18, pp. 149-164, 2001.
- [63] G. A. Challam, "Fuzzy goal programming (FGP) approach to a stochastic transportation problem under budgetary constraints.," *Fuzzy Sets and Systems*, vol. 66, no. 3, pp. 293-299, 1994.
- [64] W. F. Abd El-Wahed and M. A. Abo-Sinna, "A hybrid fuzzy-goal programming approach to multiple objective decision making problems.," *Fuzzy Sets and Systems*, vol. 119, pp. 71-85, 2001.
- [65] Y. Lai and C. Hwang, "Fuzzy multiple objective decisions making: methods and applications," Berlin: Springer, 1996.
- [66] R. Bellman and L. A. Zadeh, "Decision making in a fuzzy environment," *Management Sci.*, vol. 17, no. 4, pp. 141-164, 1970.
- [67] M. P. Biswal, "Fuzzy programming technique to solve multi-objective geometric programming problems," *Fuzzy Sets and Systems*, vol. 51, pp. 67-71, 1992.
- [68] H. J. Zimmermann, "Fuzzy programming and linear programming with several objective functions," *Fuzzy Sets and Systems*, vol. 1, pp. 45-55, 1978.
- [69] S. M. Lee and L. J. Moore, "Optimizing transportation problems with multiple objectives," *AIEE Transactions*, vol. 5, pp. 333-338, 1973.
- [70] R. S. Aenaida and N. W. Kwak, "A linear goal programming for transshipment problems with flexible supply and demand constraints," *Journal of Operational Research Society*,

- vol. 45, no. 2, pp. 215-224, 1994.
- [71] W. F. Abd El-wahed and S. M. Lee, "Interactive fuzzy goal programming for multiobjective transportation problems," *Omega*, vol. 34, pp. 158-166, 2006.
- [72] M. Sakawa, Fuzzy sets and interactive multiobjective optimization, New York: Plenum Publishing, 1993.
- [73] M. Gen, K. Ida and Y. Li, "Improved Genetic algorithm for solving Multiobjective solid transportation problems with Fuzzy numbers," *Computers and Industrial Engineering*, vol. 33, no. 3-4, pp. 589-592, 1997.
- [74] H. S. Kasana and K. D. Kumar, "An efficient algorithm for multi-objective transportation problems," *Asia-Pacific Operational Research*, vol. 17, pp. 27-40, 2000...
- [75] J. A. Diaz, "Finding a complete description of all efficient solutions to a multi-objective transportation problem," *Ekonomicko-matematicky Obzor*, vol. 15, pp. 62-73, 1979.
- [76] H. Isermann, "The enumeration of all efficient solutions for a linear multi-objective transportation problem," *Naval Research Logistics Quarterly*, vol. 26, pp. 123-139, 1979.
- [77] J. A. Diaz, "Solving multi-objective problems," *Ekonomicko-matematicky Obzor*, vol. 14, pp. 267-274, 1976.
- [78] V. Rakesh, M. P. Biswal and A. Biswas, "Fuzzy programming technique to solve Multiobjective transportation problems with some Non-linear membership functions," *Fuzzy Sets and Systems*, vol. 91, pp. 37-43, 1997.
- [79] R. Steuer, Multiple criteria optimization: theory, computation, and application, New York: Wiley, 1986.
- [80] V. Karavirta, "Integrating Algorithm Visualization Systems," *Electronic Notes in Theoretical Computer Science*, vol. 178, pp. 79-87, 2007.

- [81] M. D. Byrne, R. Catrambone and J. T. Stasko, "Evaluating animations as student aids in learning computer algorithm,," *Computers and Education*, vol. 33, pp. 253-378, 1999.
- [82] C. A. Coello Coello, "Comprehensive Survey of Evolutionary-Based Multiobjective Optimization Techniques," *International Journal of Knowledge and Information Systems*, vol. 1, no. 3, pp. 269-308, 1999.