

СПИСОК ВИКОРИСТАНОЇ ЛІТЕРАТУРИ

1. Троицкая Н.А., Чубуков А.Б. «Единая транспортная система», М.: издательский центр «Академия», 2003 – 240 с.
2. А.В. Вельможин, В.А. Гудков, Л.Б. Миротин «Теория организации и управления автомобильными перевозками: Логистический аспект формирования перевозочных процессов.» Волгоград, -Политехник, 2001 г. – 237с.
3. Белинская Л.И.,Сенько Г.А. Грузоведение и складское дело на транспорте.-М.:Транспорт,1990.-383с.
4. Кузнецов О.П., Адельсон-Вельський Г.М. Дискретна математика для інженера. - М.: Вища, 1988.
5. Харари Ф. Теория графов. / Ф. Харари; перекл. с англ. В. П. Козирьова – М.: Світ, 1973. – 293 с.
6. Van Aerde, M. and Rakha, H. (1995). “Multivariate calibration of single regime speed-flow-density relationships”. Proceedings of the Vehicle Navigation and Information Systems (VNIS) Conference. Seattle. Washington.
7. Майника Э. Алгоритми оптимізації на мережах і графах. - М.: Світ, 1981.
8. Static and Dynamic Traffic Assignment with Recurrent Neural Networks, Paul Mathias, Siemens AG, ATD SV PSM, Minich, and Department of Computer Science 4, Aachen University of Technology
9. Daganzo C.F. Remarks on Traffic Flow Modeling and its Applications // Dept. of Civil and Environmental Engineering University of California, Berkeley.
10. R. Bellman: On a Routing Problem // Quarterly of Applied Mathematics. 1958. Vol 16, No. 1. С. 87-90, 1958.

11. L. R. Ford, Jr., D. R. Fulkerson. *Flows in Networks*, Princeton University Press, 1962.
12. Томас Х. Кормен, Чарльз И. Лейзерсон, Рональд Л. Ривест, Клиффорд Штайн. *Алгоритмы: построение и анализ = Introduction to Algorithms*. — 2-е изд. — М.: Вильямс», 2006. — С. 1296.
13. H. Bast, S. Funke, and D. Matijevic. Ultrafast Shortest-Path Queries via Transit Nodes. In C. Demetrescu, A.~V. Goldberg, and D.~S. Johnson, editors, *The Shortest Path Problem: Ninth DIMACS Implementation Challenge*, pages 175{192. AMS, 2009.
14. H. Bast, S. Funke, D. Matijevic, P. Sanders, and D. Schultes. In transit to constant time shortestpath queries in road networks. In *Proc. 9th International Workshop on Algorithm Engineering and Experiments*, pages 46-59. SIAM, 2006. Available at <http://www.mpi-inf.mpg.de/bast/tmp/transit.pdf>.
15. R. Bauer and D. Delling. SHARC: Fast and robust unidirectional routing. In *Proc. 10th International Workshop on Algorithm Engineering and Experiments*, pages 13-26, 2008.
16. R. Bauer, D. Delling, and D. Wagner. *Shortest Path Indices: Establishing a Methodology for Shortest-Path Problems*. Unpublished manuscript, <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000006961>, 2009.
17. E. V. Denardo and B. L. Fox. Shortest-Route Methods: Reaching, Pruning, and Buckets. *Oper. Res.*:161-186, 1979.
18. E. W. Dijkstra. A Note on Two Problems in Connexion with Graphs. *Numer. Math.*, 1:269-271, 1959.
19. M. L. Fredman and R. E. Tarjan. Fibonacci Heaps and Their Uses in Improved Network Optimization Algorithms. *J. Assoc. Comput. Mach.*, 34:596-615, 1987.

20. R. Geisberger, P. Sanders, D. Schultes, and D. Delling. Contraction hierarchies: Faster and simpler hierarchical routing in road networks. In WEA, pages 319-333, 2008.
21. A. V. Goldberg and C. Harrelson. Computing the Shortest Path: A Search Meets Graph Theory. In Proc. 16th ACM-SIAM Symposium on Discrete Algorithms, pages 156-165, 2005.
22. A. V. Goldberg, H. Kaplan, and R. F. Werneck. Reach for A: Efficient Point-to-Point Shortest Path Algorithms. In Proc. 8th International Workshop on Algorithm Engineering and Experiments, pages 38-51. SIAM, 2006.
23. A. V. Goldberg, H. Kaplan, and R. F. Werneck. Reach for A*: Shortest Path Algorithms with Preprocessing. In C. Demetrescu, A. V. Goldberg, and D. S. Johnson, editors, The Shortest Path Problem: Ninth DIMACS Implementation Challenge, pages 93-140. AMS, 2009.
24. L. Gottlieb and L. Roditty. An optimal dynamic spanner for doubling metric spaces. In Proc. 16th Annual European Symposium Algorithms, pages 478-489, 2008.
25. R. Gutman. Reach-based Routing: A New Approach to Shortest Path Algorithms Optimized for Road Networks. In Proc. 6th International Workshop on Algorithm Engineering and Experiments, pages 100-111, 2004.
26. M. Hilger, E. Kföhler, R. H. Mohring, and H. Schilling. Fast Point-to-Point Shortest Path Computations with Arc-Flags. In C. Demetrescu, A. V. Goldberg, and D. S. Johnson, editors, The Shortest Path Problem: Ninth DIMACS Implementation Challenge, pages 73-92. AMS, 2009.
27. D. Johnson. Approximation algorithms for combinatorial problems. J. Comp. and Syst. Sci., 9:256-278, 1974.

28. J. Kleinberg. The Small-World Phenomenon: An Algorithmic Perspective. In Proc. 32th Annual ACM Symposium on Theory of Computing, pages 163-170. ACM, 1999.
29. U. Lauther. An Extremely Fast, Exact Algorithm for Finding Shortest Paths in Static Networks with Geographical Background. In IfGIprints 22, Institute fuer Geoinformatik, Universitaet Muenster pages 219-230, 2004.
30. S. Milgram. The Small World Problem. Psychology Today, 1:61-67, 1967.
31. P. Sanders and D. Schultes. Highway Hierarchies Hasten Exact Shortest Path Queries. In Proc. 13th Annual European Symposium Algorithms, pages 568-579, 2005.
32. DIMACS (the Center for Discrete Mathematics and Theoretical Computer Science) [Электронный ресурс] Режим доступа: <http://dimacs.rutgers.edu/>
33. R. E. Tarjan. Data Structures and Network Algorithms. Society for Industrial and Applied Mathematics, Philadelphia, PA, 1983.
34. M. Thorup and U. Zwick. Approximate distance oracles. J. Assoc. Comput. Mach., 52(1):1-24, 2005.