

Bibliografia – Projekty laboratoryjne

Algorytmy grafowe

1. Cormen, T. H., Leiserson, C. E., Rivest, R. L., & Stein, C. (2009). Wprowadzenie do algorytmów. WNT.
2. Dijkstra, E. W. (1959). A note on two problems in connexion with graphs. *Numerische Mathematik*, 1(1), 269–271. <https://doi.org/10.1007/BF01386390>
3. Hart, P. E., Nilsson, N. J., & Raphael, B. (1968). A formal basis for the heuristic determination of minimum cost paths. *IEEE Transactions on Systems Science and Cybernetics*, 4(2), 100–107. <https://doi.org/10.1109/TSSC.1968.300136>
4. Bellman, R. (1958). On a routing problem. *Quarterly of Applied Mathematics*, 16, 87–90.
5. Floyd, R. W. (1962). Algorithm 97: Shortest Path. *Communications of the ACM*, 5(6), 345. <https://doi.org/10.1145/367766.368168>

Drzewa samobalansujące i hashowanie

6. Goodrich, M. T., & Tamassia, R. (2015). Algorytmy i struktury danych w języku Java. Helion.
7. Adelson-Velsky, G. M., & Landis, E. M. (1962). An algorithm for the organization of information. *Proceedings of the USSR Academy of Sciences*, 146, 263–266.
8. Sleator, D. D., & Tarjan, R. E. (1985). Self-adjusting binary search trees. *Journal of the ACM*, 32(3), 652–686. <https://doi.org/10.1145/3828.3835>
9. Comer, D. (1979). The ubiquitous B-tree. *ACM Computing Surveys*, 11(2), 121–137. <https://doi.org/10.1145/356770.356776>
10. Knuth, D. E. (1998). *The Art of Computer Programming, Volume 3: Sorting and Searching*. Addison-Wesley.

Arytmetyka modularna i kryptografia

11. Menezes, A. J., van Oorschot, P. C., & Vanstone, S. A. (1996). *Handbook of Applied Cryptography*. CRC Press. <https://doi.org/10.1201/9781439821916>
12. Rivest, R. L., Shamir, A., & Adleman, L. (1978). A method for obtaining digital signatures and public-key cryptosystems. *Communications of the ACM*, 21(2), 120–126. <https://doi.org/10.1145/359340.359342>
13. Stinson, D. R. (2005). *Cryptography: Theory and Practice*. CRC Press.
14. Koblitz, N. (1994). *A Course in Number Theory and Cryptography*. Springer.
15. Pieprzyk, J., Hardjono, T., & Seberry, J. (2003). *Fundamentals of Computer Security*. Springer.

Algorytmy przetwarzania tekstu

16. Gusfield, D. (1997). Algorithms on Strings, Trees, and Sequences: Computer Science and Computational Biology. Cambridge University Press.
17. Knuth, D. E., Morris, J. H., & Pratt, V. R. (1977). Fast pattern matching in strings. SIAM Journal on Computing, 6(2), 323–350. <https://doi.org/10.1137/0206024>
18. Boyer, R. S., & Moore, J. S. (1977). A fast string searching algorithm. Communications of the ACM, 20(10), 762–772. <https://doi.org/10.1145/359842.359859>
19. Rabin, M. O., & Karp, R. M. (1987). Efficient randomized pattern-matching algorithms. IBM Journal of Research and Development, 31(2), 249–260. <https://doi.org/10.1147/rd.312.0249>
20. Aho, A. V., & Corasick, M. J. (1975). Efficient string matching: An aid to bibliographic search. Communications of the ACM, 18(6), 333–340. <https://doi.org/10.1145/360825.360855>

Algorytmy optymalizacji

21. Dorigo, M., & Stützle, T. (2004). Ant Colony Optimization. MIT Press.
22. Kirkpatrick, S., Gelatt, C. D., & Vecchi, M. P. (1983). Optimization by simulated annealing. Science, 220(4598), 671–680. <https://doi.org/10.1126/science.220.4598.671>
23. Holland, J. H. (1975). Adaptation in Natural and Artificial Systems. University of Michigan Press.
24. Michalewicz, Z. (1996). Genetic Algorithms + Data Structures = Evolution Programs. Springer.
25. Lawler, E. L., Lenstra, J. K., Rinnooy Kan, A. H. G., & Shmoys, D. B. (1985). The Traveling Salesman Problem: A Guided Tour of Combinatorial Optimization. Wiley.

Programowanie równoległe i rozproszone

26. Quinn, M. J. (2004). Parallel Programming in C with MPI and OpenMP. McGraw-Hill.
27. Grama, A., Gupta, A., Karypis, G., & Kumar, V. (2003). Introduction to Parallel Computing. Addison-Wesley.
28. Wilkinson, B., & Allen, M. (2005). Parallel Programming: Techniques and Applications Using Networked Workstations and Parallel Computers. Prentice Hall.
29. Tannenbaum, A. S., & Steen, M. van (2016). Systemy rozproszone. Zasady i paradygmaty. Helion.
30. Foster, I. (1995). Designing and Building Parallel Programs. Addison-Wesley.

Anomalia i uczenie maszynowe

31. Breunig, M. M., Kriegel, H.-P., Ng, R. T., & Sander, J. (2000). LOF: Identifying density-based local outliers. *Proceedings of the 2000 ACM SIGMOD International Conference on Management of Data*, 93–104. <https://doi.org/10.1145/342009.335388>
32. Liu, F. T., Ting, K. M., & Zhou, Z.-H. (2008). Isolation Forest. *2008 Eighth IEEE International Conference on Data Mining (ICDM)*, 413–422. <https://doi.org/10.1109/ICDM.2008.17>
33. Jolliffe, I. T., & Cadima, J. (2016). Principal component analysis: a review and recent developments. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 374(2065). <https://doi.org/10.1098/rsta.2015.0202>
34. Aggarwal, C. C. (2017). *Outlier Analysis* (2nd ed.). Springer.
35. Choraś, M., & Kozik, R. (2020). *Artificial Intelligence Tools for Cyber Threat Detection and Mitigation*. Springer.