The Sixth DIMACS Implementation Challenge:

Near Neighbor Searches

`http://www.dimacs.rutgers.edu/Challenges/Sixth/`

Near Neighbor Bibliography

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If you have any additional references which you would like added, please let us know at `challenge6@dimacs.rutgers.edu`.

References

[AM92] Pankaj Agarwal and Jiří Matoušek. Ray shooting and parametric search. In *Proc. 24th ACM Symp. Theory Comp.*, pages 517–526, 1992.

[AMN+94] Sunil Arya, David Mount, Nathan Netanyahu, Ruth Silverman, and Angela Wu. An optimal algorithm for approximate nearest neighbor searching. In *Proc. 5th ACM Symp. on Discrete Algorithms*, pages 573–583, 1994.

[Ben75] Jon L. Bentley. Multidimensional binary search trees used for associative searching. *Communication of the ACM*, 18(9):509–517, 1975.

[Bri95] Sergey Brin. Near neighbor search in large metric spaces. In *Proc. 21st Inter. Conf. on Very Large Data Bases*, pages 574–584, 1995.

[Cla88] Kenneth Clarkson. A randomized algorithm for closest-point queries. *SIAM J. Comput.*, 17(4):830–847, 1988.

[Cla94] Kenneth Clarkson. An algorithm for approximate closest-point queries. In *Proc. 10th ACM Symp. on Computational Geometry*, pages 160–164, 1994.

[Cla97] Kenneth Clarkson. Nearest neighbor queries in metric spaces. In *Proc. 39th ACM Symp. Theory Comp.*, pages 609–617, 1997.

[DL76] David Dobkin and Richard Lipton. Multidimensional searching problems. *SIAM J. Comput.*, 5(2):181–186, 1976.

[FS82] C. Feustel and L. Shapiro. The nearest neighbor problem in an abstract metric space. *Pattern Recognition Letters*, 1:125–128, 1982.

[IMRV97] Piotr Indyk, Rajeev Motwani, Prabhakar Raghavan, and Santosh Vempala. Locality-preserving hashing in multidimensional spaces. In *Proc. 39th ACM Symp. Theory Comp.*, pages 618–625, 1997.

[Kle97] Jon Kleinberg. Two algorithms for nearest-neighbor search in high dimensions. In *Proc. 39th ACM Symp. Theory Comp.*, pages 599–608, 1997.

[Mat91] Jiří Matoušek. Reporting points in halfspaces. In *Proc. 32nd Symp. on Found. Comput. Sci.*, pages 207–215, 1991.

[Mei93] Stefan Meiser. Point location in arrangements of hyperplanes. *Information and Computation*, 106(2):286–303, 1993.

[MS97] Nimrod Megiddo and Uri Shaft. Efficient nearest neighbor indexing based on a collection of space filling curves. Technical Report IBM Research Report RJ 10093 (91909), IBM Almaden Research Center, San Jose California, 1997.

[Mul91] Ketan Mulmuley. Randomized multidimensional search trees: Further results in dynamic sampling (extended abstract). In *Proc. 32nd Symp. on Found. Comput. Sci.*, pages 216–227, 1991.

[Sam89] Hanan Samet. *The Design and Analysis of Spatial Data Structures.* Addison-Wesley, Reading, Ma, 1989.

[Uhl91] Jeffrey K. Uhlmann. Satisfying general proximity/similarity queries with metric trees. *Information Processing Letters*, 40(4):175–179, 1991.

[Yia93] Peter Yianilos. Data structures and algorithms for nearest neighbor search in general metric spaces. In *Proc. 4th ACM Symp. on Discrete Algorithms*, pages 311–321, 1993.

[YY85] Andrew Yao and Frances Yao. A general approach to d-dimensional geometric queries. In *Proc. 17th ACM Symp. Theory Comput.*, pages 163–168, 1985.