List of Publications

Michiel Smid

April 4, 2019

Books

1. Giri Narasimhan, Michiel Smid. *Geometric Spanner Networks.* Cambridge University Press, Cambridge, 2007.

2. Anil Maheshwari, Michiel Smid. *Introduction to Theory of Computation.* A textbook freely available at
`http://cg.scs.carleton.ca/~michiel/TheoryOfComputation`

3. Michiel Smid. *Discrete Structures for Computer Science: Counting, Recursion, and Probability.* A textbook freely available at
`http://cg.scs.carleton.ca/~michiel/DiscreteStructures`

Edited works

4. Frank Dehne, Jörg-R. Sack, Michiel Smid. *Proceedings 8th Workshop on Algorithms and Data Structures*, Lecture Notes in Computer Science, Vol. 2748, Springer-Verlag, Berlin, 2003.

5. Ravi Janardan, Michiel Smid, Debasish Dutta. *Geometric and Algorithmic Aspects of Computer-Aided Design and Manufacturing.* DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Volume 67, American Mathematical Society, Providence, 2005.

6. Christian Knauer, Michiel Smid. *International Journal of Computational Geometry & Applications*, volume 26, issue 3/4, 2016, special issue of selected papers from the 25th International Symposium on Algorithms and Computation (ISAAC 2014).

7. Joachim Gudmundsson, Michiel Smid. *Proceedings 29th Canadian Conference on Computational Geometry*, 2017.

8. Joachim Gudmundsson, Michiel Smid. *Computational Geometry: Theory and Applications*, special issue of selected papers from the 29th Canadian Conference on Computational Geometry (CCCG 2017), to appear.

Chapters in Books

9. Michiel Smid. *Closest-point problems in computational geometry.* In: Handbook of Computational Geometry (Jörg-R. Sack and Jorge Urrutia, editors), Elsevier Science, Amsterdam, 1999, pp. 877–935.

10. Prosenjit Gupta, Ravi Janardan, Michiel Smid. *Computational geometry: generalized intersection searching.* In: Handbook of Data Structures and Applications (Dinesh Mehta and Sartaj Sahni, editors), Chapman & Hall/CRC, Boca Raton, 2005, pp. 64-1 – 64-17.

11. Ravi Janardan, Michiel Smid. *Geometric algorithms for layered manufacturing.* In: Geometric and Algorithmic Aspects of Computer-Aided Design and Manufacturing (Ravi Janardan, Michiel Smid, Debasish Dutta, editors), DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Volume 67, American Mathematical Society, Providence, 2005, pp. 189–220.

12. Michiel Smid. *The well-separated pair decomposition and its applications.* In: Handbook of Approximation Algorithms and Metaheuristics (Teofilo F. Gonzalez, editor), Chapman & Hall/CRC, Boca Raton, 2007, pp. 53-1 – 53-12.

13. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Applications of geometric spanner networks.* In: Encyclopedia of Algorithms (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2008, pp. 40–43.

14. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Geometric spanners.* In: Encyclopedia of Algorithms (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2008, pp. 360–364.

15. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Planar geometric spanners.* In: Encyclopedia of Algorithms (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2008, pp. 653–656.

16. Michiel Smid. *The weak gap property in metric spaces of bounded doubling dimension.* In: Efficient Algorithms, Essays Dedicated to Kurt Mehlhorn on the Occasion of His 60th Birthday (Susanne Albers, Helmut Alt, Stefan Näher, editors), Lecture Notes in Computer Science, Vol. 5760, Springer-Verlag, Berlin, 2009, pp. 275–289.

17. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Applications of geometric spanner networks.* In: Encyclopedia of Algorithms, Second Edition (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2016, pp. 86–90.

18. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Geometric spanners.* In: Encyclopedia of Algorithms, Second Edition (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2016, pp. 846–852.

19. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Planar geometric spanners.* In: Encyclopedia of Algorithms, Second Edition (Ming-Yang Kao, editor), Springer-Verlag, Berlin, 2016, pp. 1570–1574.

20. Prosenjit Gupta, Ravi Janardan, Saladi Rahul, Michiel Smid. *Computational geometry: generalized (or colored) intersection searching.* In: Handbook of Data Structures and Applications, Second Edition (Dinesh Mehta and Sartaj Sahni, editors), CRC Press, Boca Raton, 2018, Chapter 67, pp. 1042–1057.

21. Michiel Smid. *The well-separated pair decomposition and its applications.* In: Handbook of Approximation Algorithms and Metaheuristics, Second Edition (Teofilo F. Gonzalez, editor), to appear.

Journal Articles

22. Michiel Smid. *Duadic codes.* IEEE Transactions on Information Theory **33** (1987), pp. 432–433.

23. Michiel Smid, Leen Torenvliet, Peter van Emde Boas, Mark Overmars. *Two models for the reconstruction problem for dynamic data structures.* Journal of Information Processing and Cybernetics EIK **25** (1989), pp. 131–155.

24. Michiel Smid, Mark Overmars, Leen Torenvliet, Peter van Emde Boas. *Maintaining multiple representations of dynamic data structures.* Information and Computation **83** (1989), pp. 206–233.

25. Michiel Smid. *A data structure for the union-find problem having good single-operation complexity.* Algorithms Review **1** (1990), pp. 1–11.

26. Mark Overmars, Michiel Smid, Mark de Berg, Marc van Kreveld. *Maintaining range trees in secondary memory, part I: partitions.* Acta Informatica **27** (1990), pp. 423–452.

27. Michiel Smid, Mark Overmars. *Maintaining range trees in secondary memory, part II: lower bounds.* Acta Informatica **27** (1990), pp. 453–480.

28. Yu-Tai Ching, Kurt Mehlhorn, Michiel Smid. *Dynamic deferred data structuring.* Information Processing Letters **35** (1990), pp. 37–40.

29. Michiel Smid. *Maintaining the minimal distance of a point set in less than linear time.* Algorithms Review **2** (1991), pp. 33–44.

30. Michiel Smid. *Range trees with slack parameter.* Algorithms Review **2** (1991), pp. 77–87.

31. Michiel Smid. *The reconstruction problem for dynamic data structures, an overview.* CWI-Quarterly **4** (1991), pp. 149–172.

32. Michiel Smid. *Maintaining the minimal distance of a point set in polylogarithmic time.* Discrete & Computational Geometry **7** (1992), pp. 415–431.

33. Hans-Peter Lenhof, Michiel Smid. *An optimal construction method for generalized convex layers.* International Journal of Computational Geometry & Applications **3** (1993), pp. 245–267.

34. Hans-Peter Lenhof, Michiel Smid. *Using persistent data structures for adding range restrictions to searching problems.* RAIRO Theoretical Informatics and Applications **28** (1994), pp. 25–49.

35. Christian Schwarz, Michiel Smid, Jack Snoeyink. *An optimal algorithm for the on-line closest-pair problem.* Algorithmica **12** (1994), pp. 18–29.

36. Hans-Peter Lenhof, Michiel Smid. *Maintaining the visibility map of spheres while moving the viewpoint on a circle at infinity.* Algorithmica **13** (1995), pp. 301–312.

37. Michiel Smid. *Dynamic rectangular point location, with an application to the closest pair problem.* Information and Computation **116** (1995), pp. 1–9.

38. Mordecai Golin, Rajeev Raman, Christian Schwarz, Michiel Smid. *Simple randomized algorithms for closest pair problems.* Nordic Journal of Computing **2** (1995), pp. 3–27.

39. Hans-Peter Lenhof, Michiel Smid. *Sequential and parallel algorithms for the k closest pairs problem.* International Journal of Computational Geometry & Applications **5** (1995), pp. 273–288.

40. Prosenjit Gupta, Ravi Janardan, Michiel Smid. *Further results on generalized intersection searching problems: counting, reporting, and dynamization.* Journal of Algorithms **19** (1995), pp. 282–317.

41. Amitava Datta, Hans-Peter Lenhof, Christian Schwarz, Michiel Smid. *Static and dynamic algorithms for k-point clustering problems.* Journal of Algorithms **19** (1995), pp. 474–503.

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44. Prosenjit Gupta, Ravi Janardan, Michiel Smid. *Fast algorithms for collision and proximity problems involving moving geometric objects.* Computational Geometry: Theory and Applications **6** (1996), pp. 371–391.

45. Sunil Arya, Michiel Smid. *Efficient construction of a bounded-degree spanner with low weight.* Algorithmica **17** (1997), pp. 33–54.

46. Phillip Bradford, Rudolf Fleischer, Michiel Smid. *More efficient parallel totally monotone matrix searching.* Journal of Algorithms **23** (1997), pp. 386–400.

47. Gautam Das, Sanjiv Kapoor, Michiel Smid. *On the complexity of approximating Euclidean traveling salesman tours and minimum spanning trees.* Algorithmica **19** (1997), pp. 447–460.

48. Prosenjit Gupta, Ravi Janardan, Michiel Smid, Bhaskar Dasgupta. *The rectangle enclosure and point-dominance problems revisited.* International Journal of Computational Geometry & Applications **7** (1997), pp. 437–455.

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50. Prosenjit Gupta, Ravi Janardan, Michiel Smid. *A technique for adding range restrictions to generalized searching problems.* Information Processing Letters **64** (1997), pp. 263–269.

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55. Jayanth Majhi, Ravi Janardan, Jörg Schwerdt, Michiel Smid, Prosenjit Gupta. *Minimizing support structures and trapped area in two-dimensional layered manufacturing.* Computational Geometry: Theory and Applications **12** (1999), pp. 241–267.

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57. Sunil Arya, David M. Mount, Michiel Smid. *Dynamic algorithms for geometric spanners of small diameter: Randomized solutions.* Computational Geometry: Theory and Applications **13** (1999), pp. 91–107.

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60. Giri Narasimhan, Michiel Smid. *Approximating the stretch factor of Euclidean graphs.* SIAM Journal on Computing **30** (2000), pp. 978–989.

61. Gautam Das, Michiel Smid. *A lower bound for approximating the geometric minimum weight matching.* Information Processing Letters **74** (2000), pp. 253–255.

62. Danny Z. Chen, Gautam Das, Michiel Smid. *Lower bounds for computing geometric spanners and approximate shortest paths.* Discrete Applied Mathematics **110** (2001), pp. 151–167.

63. Jayanth Majhi, Ravi Janardan, Michiel Smid, Jörg Schwerdt. *Multi-criteria geometric optimization problems in layered manufacturing.* International Journal of Mathematical Algorithms **2** (2001), pp. 201–225.

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67. Jörg Schwerdt, Michiel Smid, Man Chung Hon, Ravi Janardan. *Computing an optimal hatching direction in layered manufacturing.* International Journal of Computer Mathematics **79** (2002), pp. 1067–1081.

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69. Ulrich Wendt, Katharina Stiebe-Lange, Michiel Smid. *On the influence of imaging conditions and algorithms on the quantification of surface topography.* Journal of Microscopy **207** (2002), pp. 169–179.

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71. Man Chung Hon, Ravi Janardan, Jörg Schwerdt, Michiel Smid. *Minimizing the total projection of a set of vectors, with applications to layered manufacturing.* Computer-Aided Design **35** (2003), pp. 57–68.

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75. Prosenjit Bose, Anil Maheshwari, Giri Narasimhan, Michiel Smid, Norbert Zeh. *Approximating geometric bottleneck shortest paths.* Computational Geometry: Theory and Applications **29** (2004), pp. 233–249.

76. Danny Z. Chen, Michiel Smid, Bin Xu. *Geometric algorithms for density-based data clustering.* International Journal of Computational Geometry & Applications **15** (2005), pp. 239–260.

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81. Joachim Gudmundsson, Giri Narasimhan, Michiel Smid. *Distance-preserving approximations of polygonal paths.* Computational Geometry: Theory and Applications **36** (2007), pp. 183–196.

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85. Anil Maheshwari, Michiel Smid, Norbert Zeh. *I/O-efficient algorithms for computing planar geometric spanners.* Computational Geometry: Theory and Applications **40** (2008), pp. 252–271.

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