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Last updated: February 2, 2012

Education

Jan. 1998–Jan. 2001	PhD (Computer Science) from Carleton University
Sep. 1996–Jan. 1998	M.C.S. degree from Carleton University
Sep. 1991–May 1996	B.C.S. degree (highest honours) from Carleton University

Academic Awards

June 2001	Best Paper Award — SIROCCO 2001 [46]	
Jan. 2001–Dec. 2001	NSERC Postdoctoral Fellowship	\$35 000/yr
May 2001	Carleton University Senate Medal	
May 1999–Apr. 2001	NSERC PGS-B Scholarship	\$19 000/yr
May 1997–Apr. 1999	NSERC PGS-A Scholarship	\$16 000/yr

Research Grants

2009	Carleton University	Research Award	\$15 000
2008–2010	NSERC	Discovery Accelerator	3×\$40 000
2008–2012	NSERC	Discovery Grant	5×\$26 000
2008	University of Sydney	Research Fellowship	\$15 000
2008	National ICT Australia	Collaboration Grant	\$7 000
2008	Ontario Innovation Trust	Matching Program	\$24 145
2008	Canada Foundation for Innovation	New Opportunities Fund	\$24 145
2007	Ontario Government	Early Researcher Award	\$100 000
2007	Carleton University	Carty Fellowship	\$50 000
2006	Belgian FNRS	Collaboration Grant	€5 000
2003–2007	NSERC	Discovery Grant	5×\$21 000
2004	Ontario Innovation Trust	Matching Program	\$83 227
2004	Canada Foundation for Innovation	New Opportunities Fund	\$83 227
2002	Carleton University	Startup Grant	\$30 000

Relevant Work Experience

Associate Professor	Jul. 2006–Present	Carleton University	Ottawa, Canada
	Associate professor of computer science		
Assistant Professor	Jan. 2002–Jun. 2006	Carleton University	Ottawa, Canada
	Assistant professor of computer science		
Postdoctoral Fellow	Jan. 2001–Dec. 2001	McGill University	Montréal, Canada
	NSERC funded postdoctoral fellow		

Current Research Interests

- Geometric computing** The study of algorithmic and combinatorial geometry problems motivated by application areas such as robust statistics [30, 34, 55, 86, 58, 89], geographic information systems [56, 59, 78, 95], molecular biology and polymer physics [31, 61, 62, 64, 74], manufacturing [45, 52, 20, 23], facility location [41, 47, 58, 89], automated cartography [53], machine learning [40], and visualization [43, 42, 44, 73]
- Data structures** The design and analysis of efficient dictionaries [3, 49, 57, 90] and geometric data structures [58, 89]
- Online and distributed computing** The design and analysis of communication protocols and distributed algorithms [46, 48, 54, 60, 63, 59, 72]

Professional Duties

- Program Committees** ISAAC 2002, CCCG 2004, Adhoc Now 2005, AAIM 2006, ISAAC 2006, Adhoc Now 2006, CCCG 2006, SoCG 2007, Adhoc Now 2007, SWAT 2008, CCCG 2008, ISAAC 2008, CCCG 2009, EuroCG 2009, CATS 2009, CCCG 2010, CCCG 2012, COCOON 2012
- Organizing Committee** CCCG 2007
- Program Chair** CCCG 2008
- Review Boards** MITACS College of Reviewers (2008), Ontario Graduate Scholarship Selection Committee (2008), MRI Early Researcher Awards Selection Committee (2010)
- Managing Editor** Journal of Computational Geometry
- Digital Librarian** Canadian Conference on Computational Geometry

Teaching and Supervision Duties

- Thesis Committees** Ahmed Moustafa (M.E., F2002), Xiaofei Jia (M.C.S, W2003), Paul Boone (M.C.S, F2003), Karel Casteels (M.Math, W2004), Ebrahim Malalla (Ph.D, McGill, W2004), Aaron Lee (M.C.S, S2004), Liang Tang (M.C.S, W2005), Derek Bradley (M.C.S, W2005), James Kelly (M.C.S, S2006), Sébastien Collette (Ph.D, Université Libre de Bruxelles, F2006), Shai Mor (M.Sc, F2006), Qiasheng Shi (Ph.D, 2008, Simon Fraser University), Sadrul Chowdhury (M.C.S, University of Ottawa, W2008), Michel Paquette (Ph.D. W2010), Dana Jansens (M.C.S, W2010), Chris Hamilton (Ph.D, W2011, Dalhousie University), Bojan Djordjević (Ph.D, S2011, University of Sydney), Jeff Sember (Ph.D, S2011, University of British Columbia)
- Comprehensive Exams** Ghada Badr (Data structures, F2002), Yihui Tang (Data structures, S2003), Julie Thorpe (Data structures, S2005), William Elazmeh (Data structures, S2006), Glenn Wurster (Algorithms, S2006), Phil Eisen (Algorithms, S2006), Daming Xu (Algorithms, F2006), Michel Paquette (Algorithms, F2006) Paul's Student (Algorithms, W2008), Amir Razavi (Data Structures, W2008), John Howat (Algorithms, F2009), Jacquelin Caron (Algorithms, F2009)

Students and Postdocs	Meng He (Postdoc 2007–2008), Mohammad Farshi (Postdoc 2007–2008), Vida Dujmović (Postdoc 2008), Greg Aloupis (FCAR Postdoc 2005–2006), Paz Carmi (Postdoc 2006–2008), Vida Dujmović (NSERC Postdoc 2004–2005, 2008–2009), Yihui Tang (Ph.D, 2008), Stefanie Wuhrer (M.C.S., 2006), Harish Gopala (M.C.S., 2004), David Wood (Postdoc 2002–2004), Dan Chen (PhD, in progress), John Howat (MCS, 2009), John Howat (PhD, in progress), Sander Verdonschot (PhD, in progress), Andre van Renssen (PhD, in progress), Dana Jansens (PhD, in progress)
Honours Projects	Michael Hodge (Diameter Finding Algorithms, W2002), Jake Denley (Generation of Random Scenery, W2004), Darcy Dunne (A Fast Algorithm for Finding the Minimum Circular Half-Covering of a 2D Point Set), Tair Bilyalov (Random 3D Terrain in Computer Games, W2005), Jeremy Gribben (Procedural Generation of Random 3D Vehicles, W2005), Christopher Johnson (Randomized Scenery in 3D Gaming, W2005), Dmitry Karasik (IOUs in BitTorrent, W2005), Vladimir Bradateanu (Dynamically Generated Random Terrain and Trees, S2005), Jamie Suomela (Random Generation of Billboard Advertising for Use in Racing Games, S2005), Gi Wu (BitTorrent IOU Extensions, S2005), Mykola Konyk (Polyhedral Surface Reconstruction, W2006), Richard Poulin (Dynamic Workflow — Graph Drawing, S2007), Irwin Zaid (Graph Hierarchies which Approximate the Complete Euclidean Graph, F2007), Rajinder Wasson (A Mediawiki Sports League Extension, W2008), Daniel Minor (Cuckoo Hashing in Python, W2008), Yini He (Fast Searching in the HTML DOM, W2008), Paul Cumming (MediaWiki 2.0, W2008), Vlad Rubinov (Fast HDR, F2009), Bryan Waite (Open Source decompression algorithms, W2010), Edward Duong (Real-time HDR, W2010), Calvin Wiebe (Halia: A JavaScript DOM Querying Algorithm, F 2010)
Summer Undergraduates	Christian Leger (Relations Between Binary and Ternary Trees, S2005), Christian Muise (Data Structures for the HTML DOM, S2007), Irwin Zaid (Hierarchical Spanners, S2007), John Howat (Property-Rich Succinct Data Structures, S2007), James Mendek (Distribution-Sensitive Point Location, S2008), Shane Smith (Simple Compiler Compiler, S2010), Nima Hoda (Basic Data Structures, S2011)
Directed Studies	Mirka Goledzinowska (Computer Viruses, F2003), Yihui Tang (Randomized Algorithms, W2004), Jon Harris (Graph Drawing, W2004)
Committees	Lab Committee (2002, 2003, 2004) Hiring Committee (2003, 2004, 2005, 2006, 2007) Curriculum Committee (2003) Promotions and Tenure Committee (2003, 2007)
Courses Taught	COMP5408 Advanced Data Structures (W2002, F2003, F2004, W2006, W2007, W2008, F2009, W2011) COMP4804 Algorithms II (W2003, W2004, W2005, W2006, W2010) COMP4900/5900 Computational Molecular Biology (W2006, W2007) COMP3804 Algorithms I (W2006) COMP3002 Compiler Construction (W2003, W2004, W2005, W2008, F2009, W2011) COMP2405 Internet Application Programming (W2007, W2008) COMP2402 Data Structures (F2010) COMP5804 OCICS Graduate Seminar (2004, 2005, 2006, 2007, 2008)

Publications

Books

- [1] P. Morin. *Open Data Structures (in Java)*. CG Lab Press, 2012. A freely-available open content textbook.
- [2] P. Morin. *Open Data Structures (in C++)*. CG Lab Press, 2012. A freely-available open content textbook.

Chapters in Books

- [3] P. Morin. Hash tables. In Dinesh Mehta and Sartaj K. Sahni, editors, *Handbook of Data Structures and Applications*, chapter 9. CRC Press, 2004.

Papers Accepted in Refereed Journals

- [4] D. Chen, P. Morin, and U. Wagner. Absolute approximation of Tukey depth: Theory and experiments. *Computational Geometry: Theory and Applications*. Accepted in January 2012. Special issue on Geometric Optimization.
- [5] P. Bose, K. Douïeb, V. Dujmović, J. Howat, and P. Morin. Fast local searches and updates in bounded universes. *Computational Geometry: Theory and Applications*. Accepted in December 2011. Special issue of selected papers from *CCCG 2010*.
- [6] D. Chen, V. Dujmović, L. Devroye, and P. Morin. Memoryless routing in convex subdivisions: Random walks are optimal. *Computational Geometry: Theory and Applications*. Accepted in December 2011. Preliminary version appears at EuroCG 2010.
- [7] P. Bose, J. Howat, and P. Morin. A distribution-sensitive dictionary with low space overhead. *Journal of Discrete Algorithms*. Accepted in November, 2011. Preliminary version appears in *Proceedings of the 16th International Workshop on Algorithms and Data Structures (WADS 2009)*, LNCS, pages 110-118. Springer, 2009.
- [8] P. Bose, K. Douïeb, and P. Morin. Skip lifts: A probabilistic alternative to red-black trees. *Journal of Discrete Algorithms*. Accepted, pending minor revisions, in September 2011. Special issue of selected papers from the *International Workshop on Combinatorial Algorithms (IWOCA 2010)*.
- [9] S. Collette, V. Dujmović, J. Iacono, S. Langerman, and P. Morin. Entropy, triangulation, and point location in planar subdivisions. *ACM Transactions on Algorithms*. Accepted in August 2011.
- [10] V. Dujmović, J. Gudmundsson, P. Morin, and T. Wolle. Notes on large angle crossing graphs. *Chicago Journal of Theoretical Computer Science*. Accepted, pending minor revisions, in Jan 2011. Special issue of selected papers from *Computing: The Australasian Theory Symposium (CATS 2010)*.
- [11] K. Buchin, M. Löffler, W. Mulzer, and P. Morin. Delaunay triangulation of imprecise points simplified and extended. *Algorithmica*. Accepted, pending minor revisions, in February 2010. Preliminary version appears in *Proceedings of the 16th International Workshop on Algorithms and Data Structures (WADS 2009)*, LNCS. Springer, 2009.
- [12] P. Bose, E. Chen, M. He, A. Maheshwari, and P. Morin. Succinct geometric indexes supporting point location. *ACM Transactions on Algorithms*. Accepted in August 2009. Preliminary version appeared in *Proceedings of the 20th ACM-SIAM Symposium on Discrete Algorithms (SODA 2009)*, pages 635-644, 2009.
- [13] V. Dujmović, J. Howat, and P. Morin. Biased range trees. *Algorithmica*, 62(1):21–37, 2012. Preliminary version appeared in *Proceedings of the 20th ACM-SIAM Symposium on Discrete Algorithms (SODA 2009)*, pages 486–495, 2009.

- [14] E. Kranakis, D. Krizanc, and P. Morin. Randomized rendez-vous with limited memory. *ACM Transactions on Algorithms*, 7(3):34:1–34:12, July 2011. Preliminary version appears in *Proceedings of the 8th Latin American Theoretical Informatics Symposium (LATIN2008)*, pages 605–616, 2008.
- [15] P. Bose, P. Carmi, F. Hurtado, and P. Morin. A generalized Winternitz theorem. *Journal of Geometry*, 100:29–35, 2011.
- [16] J. Gudmundsson, P. Morin, and M. Smid. Algorithms for marketing-mix optimization. *Algorithmica*, 60(4), 2011.
- [17] P. Bose, S. Collette, S. Langerman, A. Maheshwari, P. Morin, and M. Smid. Sigma-local graphs. *Journal of Discrete Algorithms*, 8:15–23, 2010.
- [18] L. Devroye, J. Gudmundsson, and P. Morin. On the expected maximum degree of Gabriel and Yao graphs. *Advances in Applied Probability*, 41(4):1123–1140, 2009.
- [19] P. Bose, V. Dujmović, F. Hurtado, S. Langerman, P. Morin, and D. R. Wood. A polynomial bound for untangling geometric planar graphs. *Discrete & Computational Geometry*, 42(2):570–585, 2009. Preliminary version appeared at *Topological and Geometric Graph Theory (TGGT 2008)*.
- [20] P. Bose, P. Morin, M. Smid, and S. Wuhler. Clamshell casting. *Algorithmica*, 55(4):666–702, 2009. Preliminary version appears in *Proceedings of CAD’07*.
- [21] P. Bose, V. Dujmović, F. Hurtado, and P. Morin. Connectivity-preserving transformations of binary images. *Computer Vision and Image Understanding*, 113(10):1027–1104, October 2009.
- [22] R. Atanassov, P. Bose, M. Couture, A. Maheshwari, P. Morin, M. Paquette, M. Smid, and S. Wuhler. Algorithms for optimal outlier removal. *Journal of Discrete Algorithms*, 7:239–248, 2009.
- [23] P. Bose, P. Morin, M. Smid, and S. Wuhler. Rotationally monotone polygons. *Computational Geometry: Theory and Applications*, 42:471–483, 2009. See also [88].
- [24] J. Erickson, F. Hurtado, and P. Morin. Centerpoint theorems for wedges. *Discrete Mathematics & Theoretical Computer Science*, 11(1):45–54, 2009.
- [25] P. Bose, P. Carmi, M. Couture, A. Maheshwari, P. Morin, and M. Smid. Spanners of complete k -partite geometric graphs. *SIAM Journal on Computing*, 38(5):1803–1820, 2009. Preliminary version appears in *Proceedings of the 8th Latin American Theoretical Informatics Symposium (LATIN2008)*, 2008.
- [26] P. Bose, V. Dujmović, D. Krizanc, S. Langerman, P. Morin, D. R. Wood, and S. Wuhler. A characterization of the degree sequences of 2-trees. *Journal of Graph Theory*, 58(3):191–209, 2008. Preliminary version appears in *Proceedings of ANALCO 2007*.
- [27] P. Bose, H. Guo, E. Kranakis, A. Maheshwari, P. Morin, J. Morrison, M. Smid, and Y. Tang. On the false-positive rate of Bloom filters. *Information Processing Letters*, 108:210–213, 2008.
- [28] P. Carmi, V. Dujmović, P. Morin, and D. R. Wood. Distinct distances in graph drawings. *Electronic Journal of Combinatorics*, 15(R107), August 2008.
- [29] D. Bremner, D. Chen, J. Iacono, S. Langerman, and P. Morin. Output-sensitive algorithms for Tukey depth and related problems. *Statistics and Computing*, 18(3):259–266, September 2008.
- [30] P. Morin. An optimal randomized algorithm for d -variate zonoid depth. *Computational Geometry: Theory and Applications*, 39(3):229–235, 2008.
- [31] P. K. Agarwal, R. Klein, C. Knauer, S. Langerman, P. Morin, M. Sharir, and M. Soss. Computing the detour and spanning ratio of paths, trees and cycles in 2d and 3d. *Discrete & Computational Geometry*, 39(1):17–37, 2008. Related results are contained in Conference Paper [74].
- [32] E. D. Demaine, J. Erickson, D. Krizanc, H. Meijer, P. Morin, M. Overmars, and S. Whitesides. Realizing partitions respecting full and partial order information. *Journal of Discrete Algorithms*, 6:51–58, 2008. Preliminary version appears in *Proceedings of the Australasian Workshop on Combinatorial Algorithms (AWOCA 2005)*, pages 105–114, 2005.
- [33] G. Aloupis, E. D. Demaine, S. Langerman, P. Morin, J. O’Rourke, I. Streinu, and G. T. Toussaint. Unfolding polyhedral bands. *Computational Geometry: Theory and Applications*, 39(1):30–42, 2008. Special issue of selected papers from *The 16th Canadian Conference on Computational Geometry (CCCG 2004)*, 2004.

- [34] H. Gopala and P. Morin. Algorithms for bivariate zonoid depth. *Computational Geometry: Theory and Applications*, 39(1):2–13, 2008. Special issue of selected papers from the *16th Canadian Conference on Computational Geometry (CCCG 2004)*.
- [35] G. Aloupis, P. Bose, and P. Morin. Reconfiguring triangulations with edge flips and point moves. *Algorithmica*, 47(4):367–378, 2007. Special issue of selected papers from the *12th International Symposium on Graph Drawing*, pages 1–11, volume 3383 of LNCS, Springer-Verlag.
- [36] P. Bose, E. D. Demaine, F. Hurtado, S. Langerman, J. Iacono, and P. Morin. Geodesic ham-sandwich cuts. *Discrete & Computational Geometry*, 37(3):325–330, 2007. Preliminary version appears in *Proceedings of the Twentieth ACM Symposium on Computational Geometry (SoCG 2004)*, pages 1-9. ACM Press, 2004.
- [37] P. Bose, A. Maheshwari, P. Morin, J. Morrison, M. Smid, and J. Vahrenhold. Space-efficient geometric divide-and-conquer algorithms. *Computational Geometry: Theory and Applications*, 37(3):209–227, 2007. Preliminary version appears in *Proceedings of the 20th European Workshop on Computational Geometry (EWCG 2004)*.
- [38] P. Bose, J. Czyzowicz, Z. Gao, P. Morin, and D. R. Wood. Simultaneous diagonal flips in plane triangulations. *Journal of Graph Theory*, 54(4):307–330, 2006. Preliminary version appears in *Proceedings of the 17th ACM-SIAM Symposium on Discrete Algorithms*, pages 212-221, 2006.
- [39] D. Krizanc, P. Morin, and M. Smid. Range mode and range median queries on lists and trees. *Nordic Journal of Computing*, 12:1–17, 2005. Preliminary version appears in *Proceedings of the Fourteenth Annual International Symposium on Algorithms and Computation (ISAAC 2003)*, volume 1906 of LNCS, pages 517-526, 2003.
- [40] D. Bremner, E. D. Demaine, J. Erickson, J. Iacono, S. Langerman, P. Morin, and G. T. Toussaint. Output-sensitive algorithms for computing nearest-neighbour decision boundaries. *Discrete & Computational Geometry*, 33(4):593–604, 2005. Preliminary version appears in *Proceedings of the Workshop on Algorithms and Data Structures (WADS 2003)*, pages 451–461, LNCS, 2748, Springer-Verlag, 2003.
- [41] S. Langerman and P. Morin. Covering things with things. *Discrete & Computational Geometry*, 33(4):717–729, 2005. Preliminary version appears in *Proceedings of the 10th European Symposium on Algorithms (ESA 2002)*, pages 662–673, LNCS 2461, Springer-Verlag, 2002.
- [42] V. Dujmović, P. Morin, and D. R. Wood. Layout of graphs with bounded tree-width. *SIAM Journal on Computing*, 34(3):553–579, 2005.
- [43] P. Morin and D. R. Wood. Three-dimensional 1-bend graph drawings. *Journal of Graph Algorithms and Applications*, 8(3):357–366, 2004. Preliminary version appears in *Proceedings of the 16th Canadian Conference on Computational Geometry (CCCG 2004)*.
- [44] P. Bose, J. Czyzowicz, P. Morin, and D. R. Wood. The maximum number of edges in a three-dimensional grid-drawing. *Journal of Graph Algorithms and Applications*, 8(1):21–26, 2004. Preliminary version appeared at *The 19th European Workshop on Computational Geometry (EuroCG 2003)*.
- [45] P. Morin and J. Morrison. The geometry of carpentry and joinery. *Discrete Applied Mathematics*, 144(3):374–380, 2004. Special issue of selected papers from *Fun with Algorithms 2 (FUN 2001)*.
- [46] P. Bose and P. Morin. Competitive online routing in geometric graphs. *Theoretical Computer Science*, 324(2–3):273–288, 2004. Special Issue: In Memoriam, Steve Seiden. Preliminary version appears in *Proceedings of the VIIIth International Colloquium on Structural Information and Communication Complexity (SIROCCO 2001)*, pages 35–44, 2001.
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- [48] P. Bose and P. Morin. Online routing in triangulations. *SIAM Journal on Computing*, 33(4):937–951, 2004. Preliminary version appears in *Proceedings of the Tenth International Symposium on Algorithms and Computation (ISAAC'99)*, pages 113–122, LNCS 1741, Springer-Verlag, 1999.

- [49] L. Devroye, P. Morin, and A. Viola. On worst case Robin-Hood hashing. *SIAM Journal on Computing*, 33(4):923–936, 2004.
- [50] H. Brönnimann, J. Iacono, J. Katajainen, P. Morin, J. Morrison, and G. T. Toussaint. Space-efficient planar convex hull algorithms. *Theoretical Computer Science*, 321(1):25–40, 2004. Special issue of selected papers from *Latin American Theoretical Informatics (LATIN 2002)*.
- [51] P. Bose, J. Gudmundsson, and P. Morin. Ordered theta graphs. *Computational Geometry: Theory and Applications*, 28(1):11–18, 2004. Special issue of selected papers from *The 14th Canadian Conference on Computational Geometry (CCCG 2002)*.
- [52] P. Bose and P. Morin. Testing the quality of manufactured disks and balls. *Algorithmica*, 38(2):161–177, 2004. Special issue on Shape Algorithmics (Remco C. Veltkamp, editor).
- [53] M. de Berg, P. Bose, O. Cheong, and P. Morin. On simplifying dot maps. *Computational Geometry: Theory and Applications*, 27(1):43–62, 2004. Special issue of selected papers from the *Xth European Conference on Computational Geometry (EuroCG 2002)*.
- [54] P. Bose, D. Krizanc, S. Langerman, and P. Morin. Asymmetric communication protocols via hotlink assignments. *Theory of Computing Systems*, 36(6):655–661, 2003. Special issue of selected papers from the *IXth International Colloquium on Structural Information and Communication Complexity (SIROCCO 2002)*.
- [55] P. Braß, L. Heinrich-Litan, and P. Morin. Computing the center of area of a convex polygon. *International Journal of Computational Geometry and Applications*, 13:439–445, 2003.
- [56] P. Bose, M. van Kreveld, A. Maheshwari, P. Morin, and J. Morrison. Translating a regular grid over a point set. *Computational Geometry: Theory and Applications*, 25(1–2):21–34, 2003. Special issue of selected papers from the *The 17th European Workshop on Computational Geometry (EuroCG 2001)*, 2001. Preliminary version appears in *Proceedings of the 7th Annual Workshop on Algorithms and Data Structures (WADS 2001)*, pages 180–191, LNCS 2125, Springer-Verlag, 2001.
- [57] L. Devroye and P. Morin. Cuckoo hashing: Further analysis. *Information Processing Letters*, 86(4):215–219, 2003.
- [58] P. Bose, A. Maheshwari, and P. Morin. Fast approximations for sums of distances, clustering and the Fermat-Weber problem. *Computational Geometry: Theory and Applications*, 24(3):135–146, 2002. Preliminary version appears in *IX Encuentros de Geometría Computacional (9EGC)*, 2001.
- [59] P. Bose and P. Morin. An improved algorithm for subdivision traversal without extra storage. *International Journal of Computational Geometry and Applications*, 12(4):297–308, 2002. Special issue of selected papers from the *11th Annual International Symposium on Algorithms and Computation (ISAAC 2000)*.
- [60] P. Bose, A. Brodnik, S. Carlsson, E. D. Demaine, R. Fleischer, A. López-Ortiz, P. Morin, and J. I. Munro. Online routing in convex subdivisions. *International Journal of Computational Geometry and Applications*, 12(4):283–296, 2002. Special issue of selected papers from the *11th Annual International Symposium on Algorithms and Computation (ISAAC 2000)*.
- [61] J. A. Calvo, D. Krizanc, P. Morin, M. Soss, and G. T. Toussaint. Convexifying polygons with simple projections. *Information Processing Letters*, 80(2):81–86, 2001.
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- [63] P. Bose, P. Morin, I. Stojmenović, and J. Urrutia. Routing with guaranteed delivery in *ad hoc* wireless networks. *Wireless Networks*, 7(6):609–616, 2001. Special issue of selected papers from the *3rd International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications (DIALM’99)*.
- [64] H.-K. Ahn, P. Bose, J. Czyzowicz, N. Hanusse, E. Kranakis, and P. Morin. Flipping your lid. *Geombinatorics*, X(2):57–63, 2000. Preliminary version appears in *Proceedings of the 12th Canadian Conference on Computational Geometry (CCCG’00)*.

Papers Accepted at Refereed Conferences

- [65] B. Ballinger, N. Benbernou, P. Bose, M. Damian, E. D. Demaine, V. Dujmović, R. Flatland, F. Hurtado, J. Iacono, A. Lubiw, P. Morin, V. Sacristán, D. Souvaine, and R. Uehara. Coverage with k -transmitters in the presence of obstacles. In *The 4th Annual International Conference on Combinatorial Optimization and Applications*, pages Part II: 1–15, 2010.
- [66] P. Bose, P. Carmi, D. Jansens, A. Maheshwari, and M. Smid. Improved methods for generating quasi-Gray codes. In *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT 2010)*, 2010.
- [67] J. Gudmundsson and P. Morin. Planar visibility: Testing and counting. In *Proceedings of the Twenty-Sixth ACM Symposium on Computational Geometry (SoCG 2010)*, 2010. Submitted to *SIAM Journal on Computing*, January 2010; rejected in July 2010.
- [68] P. Bose, M. He, A. Maheshwari, and P. Morin. Succinct orthogonal range search structures on a grid with applications to text indexing. In *Proceedings of the 16th International Workshop on Algorithms and Data Structures (WADS 2009)*, LNCS, pages 98–109. Springer, 2009. Submitted to *Computational Geometry: Theory and Applications* in June 2010; rejected in February 2010.
- [69] S. Collette, V. Dujmović, J. Iacono, S. Langerman, and P. Morin. Distribution-sensitive point location in convex subdivisions. In *Proceedings of the 19th ACM-SIAM Symposium on Discrete Algorithms (SODA 2008)*, pages 912–921, 2008. Submitted to *Journal of the ACM* in November 2006; rejected in August 2007. Submitted to *SIAM Journal on Computing*, August 2007; rejected in May 2008.
- [70] P. Bose, E. Kranakis, P. Morin, and Y. Tang. Approximate range mode and range median queries. In *Proceedings of the 22nd Symposium on Theoretical Aspects of Computer Science (STACS 2005)*, volume 3404 of *Lecture Notes in Computer Science*, pages 377–388. Springer-Verlag, 2005.
- [71] M. Barbeau, E. Kranakis, D. Krizanc, and P. Morin. Improving distance based geographic location techniques in sensor networks. In *Proceedings of the 3rd International Conference on AD-HOC Networks & Wireless (ADHOC-NOW'04)*, pages 197–210, 2004.
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- [102] Randomized algorithms I, II, and III. New Zealand Institute of Mathematics and its Applications. Programme in Algorithmics, December 2008. .
- [103] Distribution-sensitive point location. Sydney Theory Day, May 2008.
- [104] Algorithms for zonoids. East Coast Combinatorial Conference (ECCC 2007), April 2007.
- [105] Disctribution-sensitive point location in convex subdivisions. Algorithms Seminar, McGill University, December 2006.
- [106] An optimal algorithm for d -variate zonoid depth. Algorithms Seminar, Université Libre de Bruxelles, October 2006.
- [107] Recent results on data depth and outlier removal in 2d. Radcliffe Institute Seminar on Computational Aspects of Statistical Data Depth Analysis, Cambridge, MA, USA, July 2006.
- [108] Centerpoint theorems for wedges. Japan Workshop on Discrete and Computational Geometry, Kanezawa, Japan, May 2005.
- [109] Realizing partitions respecting full and partial order information. UPC Computational Geometry Seminar, May 2005.
- [110] Computing the center of area of a convex polygon. DIMACS Workshop on Data Depth: Robust Multivariate Analysis, Computational Geometry and Applications, May 2003.
- [111] Output-sensitive algorithms for computing nearest-neighbour decision boundaries. MITACS Workshop on Facility Location, Ottawa, Canada, May 2003.
- [112] Computing the center of area of a convex polygon. MITACS Workshop on Facility Location, Vancouver, Canada, June 2002.
- [113] Two recent results on flipping polygons. Special Session on Physical Knotting and Unknotting, AMS Spring Western Section Meeting, Las Vegas, Nevada, USA, April 2001.
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