

Prosenjit Bose

School of Computer Science
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Work Experience: Academic:

Period	Position	Place
01/23 – 09/20	Associate Dean Research and International Director of OCICS	Carleton Faculty of Science Carleton U and U of O
04/20 – 10/22	Chancellor's Professor Adjunct Professor	Carleton University University of Windsor
09/20 – 06/14	Adjunct Professor Adjunct Professor	Tufts University University of Manitoba
06/10 – 07/06	Collaborateur Scientifique Full Professor	Univ. Libre Bruxelles Carleton University
07/20 – 12/22	Graduate Director (Program Management)	Carleton University
08/10 – 08/16	Associate Dean Research and Grad Studies (Science)	Carleton University
07/11 – 11/15	President of Scholarships & Fellowships, Member of COGS	NSERC
01/10 – 07/10	Acting Associate Dean Research (Science)	Carleton University
07/00 – 07/06	Associate Professor	Carleton University
09/03 – 12/03	Visiting Professor	SITE Ottawa U, Ottawa
01/03 – 08/03	Visiting Professor	U. Catalunya, Barcelona, Spain
07/00 – 02/02	Director of Ott.-Carleton Inst. of Comp. Sci.	Ottawa & Carleton University
07/99 – 07/00	Assoc. Dir. of Ott.-Carleton Inst. of Comp. Sci.	Ottawa & Carleton University
07/99 – 02/02	Director Graduate Studies, School of Comp. Sci.	Carleton University
07/97 – 07/00	Assistant Professor (tenured 07/99)	Carleton University
12/95 – 07/97	Assistant Professor	U. du Québec à Trois-Rivières.
09/94 – 12/94	Teaching Assistant	McGill University
09/92 – 12/94	Technical Report Librarian	McGill University
01/93 – 04/93	Lecturer	McGill University
01/92 – 04/92	Lecturer	U. du Québec à Trois-Rivières
05/90 – 12/91	Research and Teaching Assistant	University of Waterloo

Education:

- 01/95 – 12/95 **Killam & NSERC Postdoctorate Fellowship**, Univ. of British Columbia.
Investigated the applications of Computational Geometry in such areas as Automated Manufacturing, Geographic Information Systems (GIS), Pattern Recognition, Graph Drawing and Scientific Visualization with Dr. David Kirkpatrick and Dr. Jack Snoeyink.
- 01/92 – 12/94 **Ph.D. Computer Science**, McGill University.
D.W. Ambridge Award – Outstanding PhD Graduate in Science & Engineering.
Thesis: *Geometric and Computational Aspects of Manufacturing Processes*.
Dean's Honour List.
Supervisor: Dr. Godfried Toussaint

05/90 - 12/91

M.Math. Computer Science, University of Waterloo.Thesis: *Visibility in Polygons*. Dean's Honour List.

Supervisors: Dr. Anna Lubiw and Dr. Ian Munro

09/85 - 04/90

B.Math. Honours Computer Science & Combinatorics, Univ. of Waterloo.

Graduated with Distinction on Dean's Honour List.

Work Experience: Industrial:

Period	Position	Place
05/89 - 09/89	Member of Scientific Staff	Nortel, Montreal
01/88 - 12/88	Programmer/Analyst	Geovision Corp., Ottawa
05/87 - 09/87	Programmer/Analyst	Accugraph Corp., Ottawa

Main Research Interests:**Research Interests**

Applied Geometric Computing (applications to Manufacturing, G.I.S., Pattern Recognition, Image Processing), Computational Geometry, Data Structures, Algorithm Design and Analysis, Randomized Algorithms, Graph Theory.

Geometric computing

The design, analysis, and empirical study of algorithms for geometric problems such as those that occur in geographic information systems, manufacturing, facility location

Online and distributed computing

The design, analysis and empirical study of routing protocols and distributed algorithms

Grants:

Source	Amount	Duration	Principal Investigator	Type
Carleton	\$15 000	2021	P. Bose	University Research Achievement Award
Carleton	\$5 000	2020	P. Bose	Faculty Research Achievement Award
NSERC	\$275 000	2019-2023	P. Bose	Discovery
MITACS	\$90 000	2020-2022	P. Bose and M. Bremner	Accelerate
NSERC	\$25 000	2019-2020	P. Bose and J. Howat (Kinaxis)	Engage
TRIP	30 000 Euros	2018-2020	O. Devillers and P. Bose	Inria Team grant
NSERC	\$230 000	2014-2018	P. Bose	Discovery
NSERC	\$200 000	2009-2013	P. Bose	Discovery
Belgium	\$15 000	2008	P. Bose	Visiting Researcher Award
Carleton	\$15 000	2008	P. Bose	Teaching Achievement Award
PREA - Early Researcher	\$150 000	2006-11	P. Bose	Research Excellence Award
Carleton	\$15 000	2006	P. Bose	Research Achievement Award
NSERC	\$150 000	2004-2008	P. Bose	Operating
Catalunya	\$15 000	2003	P. Bose	Visiting Researcher Award
Carleton	\$10 000	2001	P. Bose	Research Achievement Award
NSERC	\$108 000	2000-2003	P. Bose	Operating
NSERC	\$26 565	1999	P. Bose	Operating
NSERC	\$25 300	1998	P. Bose	Operating
NCE GEOIDE	\$400 000	1998-02	J. Sack	NCE
NCE GEOIDE	\$120 000	1998-1999	C. Gold and J. Snoeyink	NCE
NCE MITACS	\$400 000	1998-2002	B. Bhattacharya	NCE
Carleton	\$10 000	1998	P. Bose	Start-up
Carleton	\$10 000	1997	P. Bose	Start-up
NSERC	\$23 000/yr	1996-1997	P. Bose	Operating
FCAR	\$13 000	1996	P. Bose	Operating

Source	Amount	Duration	Principal Investigator	Type
FCAR	\$13 900	1996	P. Bose	Equipment
UQTR	\$10 000	1995	P. Bose	Start-up

Achievement Awards:

Year	Award
2021	Carleton University Research Achievement Award
2020	Research Achievement Award - Carleton Faculty of Science
2018	Best paper Award - International Symposium on Graph Drawing
2014	Carleton University Graduate Mentorship Award
2009	Nominated for TVO Ontario Best Lecturer Award
2008	Carleton University Teaching Achievement Award
2006	Premier's Research Excellence Award - Early Researcher
2006	Carleton University Research Achievement Award
2001	Carleton University Research Achievement Award
2001	Best Paper Award - Sirocco 2001
1995	D.W. Ambridge Award for McGill's Outstanding PhD Graduate in Science & Eng.
01/95 - 12/95	Killam Postdoctorate Fellowship
01/95 - 12/95	NSERC Postdoctorate Fellowship
1995	FCAR Postdoctorate Fellowship (declined)
05/94 - 12/94	FCAR Postgraduate Scholarship
05/91 - 04/94	NSERC Postgraduate Scholarship (PGS2, PGS3)
09/90 - 12/91	ICR (Inst. for Comp. Research, Waterloo) Scholarship
1992 - 1994	Dean's List, McGill University
1989 - 1991	Dean's List, University of Waterloo

Teaching:

Course Number	Course Title	Institute	Semester
308-557B	Computer Graphics	McGill	W93
ROP-1010	Algorithms (in French)	UQTR	F96
SIF-1015	Operating Systems (in French)	UQTR	W97, F96, W92
SIF-1016	Data Structures (in French)	UQTR	S97, S96
SIF-1048	Computational Geometry (in French)	UQTR	W97
95.102	Intro. Systems Prog.	Carleton	W98
95.185	Discrete Math	Carleton	F02
95.202	Data Structures	Carleton	W99
95.300	Operating Systems	Carleton	F00, W99, F97
95.384	Algorithms	Carleton	F99, W99, W98, W00
95.508	Computational Geometry	Carleton	F00, W00, F01, F02
95.591	Optimization Problems	Carleton	F98
95.591	Partitioning Problems	Carleton	W99
95.591	Kinetic Data Structures	Carleton	F01
95.591	Computer Vision: Inpainting	Carleton	S02
95.691	Dynamic Data Structures	Carleton	F99
95.691	Facility Location	Carleton	W00
COMP1805	Discrete Math	Carleton	F04, F05, F06, F07, F08, F09, W13, W16
COMP1805	Discrete Math Tutorials	Carleton	F04, F05, F06, F07, F08
COMP2402	Data Structures	Carleton	W04
COMP2804	Discrete Structures II	Carleton	F22
COMP3804	Algorithms	Carleton	F16, F17, F20

Course Number	Course Title	Institute	Semester
COMP4804	Advanced Algorithms	Carleton	W11, W12, W13, W16, F18, F19, F20, F21, F22, F23
COMP5008	Computational Geometry	Carleton	F04, F05, F06, F07, F08, F09, F19
COMP5409	Applied Computational Geometry	Carleton	W11

Administrative Duties at Carleton:

Duty	Duration
Carleton RAA Committee	2021-2022
Carleton Research and Computing Committee	01/13 - 07/16
Graduate Faculty Board	01/10 - 07/16
Carleton Research Advisory Committee	01/10 - 07/16
NSERC Evaluation Committee (Carleton)	08/06 - 07/16
Career Services Advisory Committee	07/12 - 07/15
Project Leader - COOP Benchmarking	05/13 - 03/15
Carleton Negotiation/Bargaining Team	10/13 - 03/14
Carleton Research Space and Facilities Task Force	01/13 - 12/13
Post-Doctoral Fellow Committee	02/10 - 07/13
SCS Executive Committee	09/11 - 09/12
Hiring Committee	11/11 - 07/12
TAA Evaluation Committee	11/11 - 12/11
OCICS Board Member	08/10 - 08/11
NSERC/OGS Comp. Sci. Evaluation Committee	08/05 - 08/10
Undergraduate Recruitment Committee	07/07 - 08/10
Graduate Studies Committee	07/07 - 07/10
Senate Tenure Appeal Committee	07/07 - 07/11
Curriculum Reinvention Committee	04/09 - 01/11
Hiring Committee	11/08 - 12/09
NSERC Evaluation Committee (SCS)	08/05 - 08/09
OGS Evaluation Committee (SCS)	08/05 - 08/09
Associate VP Selection Committee	11/09 - 12/09
School Web Site Design Committee	07/07 - 08/08
Graduate Affairs Committee	05/05 - 07/07
OCICS Committee Member	01/04 - 07/07
Graduate Admissions Committee	01/04 - 07/07
ISS Committee Member	01/04 - 07/07
Hiring Committee Member	01/98 - 12/02
Executive Committee Member	07/00 - 12/02
ISS Committee Member	07/00 - 12/02
Director of OCICS	07/00 - 02/02
Associate Director of OCICS	07/99 - 07/00
Graduate Director	07/99 - 02/02
Graduate Admissions Committee	07/99 - 12/02
OCICS Committee Member	07/99 - 12/02
Coop Committee Member	09/98 - 01/02
Honors Project Coordinator	09/97 - 08/99
Co-organizer of CATS	1997-99

Graduate and Post-Graduate Student Supervision:

Name	Years	Degree	Thesis Topic
Zoltan (William) Kalnay	23 -	PhD	Algorithms
Karthik Murali	22 -	PhD	Computational Geometry
Yan Garito	22 -	PhD	Computational Geometry
Sandrine Njoo	22 -	Masters	Computational Geometry
Patrick Devaney	22 -	Masters	Computational Geometry
David Worley	21 -	PhD	Computational Geometry
Ikaro Costa	21 -	PhD (U. Manitoba)	Computational Geometry
Alma Loyola	21 -	PhD	Computational Geometry
Elmira Adeeb	21 -	PhD	Computational Geometry
Saeed Odak	21 -	PhD	Computational Geometry
Andrew Gonczi	20 -	PhD (Tufts Univ.)	Computational Geometry
Tyler Tuttle	20 -	PhD	Computational Geometry
Guillermo Esteban	20 -	PhD (cotutelle)	Computational Geometry
Saman Bazargani	19 -	PhD	Computational Geometry
Mehrnoosh Javarsineh	19 -	PhD	Graphs
Mike Bremner	19 -	PhD	Computational Geometry
Anthony D'Angelo	16 - 22	PhD	Algorithms
Zoltan (William) Kalnay	20 - 22	Masters	Algorithms
Christopher Blackman	20 - 22	Masters	Rendez-vous problems
Yan Garito	21 - 22	Masters (U. Bordeaux)	Computational Geometry
Joyce Bacic	21 - 21	NSERC USRA	Computational Geometry
Julia Cai	21 - 21	NSERC USRA	Computational Geometry
Charles Nguyen	21 - 21	UG research (DSRI)	Computational Geometry
Yunkai Wang	19 - 21	Masters	Computational Geometry
Francois-Xavier Chaplain Corriveau	19 - 21	Masters	Algorithms
Tyler Tuttle	18 - 20	Masters	Computational Geometry
Luis Fernando	20 - 20	Postdoc	Computational Geometry
Maria del Pilar Cano	16 - 20	PhD	Computational Geometry
Hugo Akitaya	19 - 20	Postdoc	Computational Geometry
Saeed Mehrabi	17 - 20	Fields Postdoc	Computational Geometry
Luis Fernando	16 - 20	PhD	Computational Geometry
Christopher Blackman	19 - 19	UG research	Rendez-vous problems
Yeganeh Bahoo	14 - 19	PhD (U. Manitoba)	Computational Geometry
Darryl Hill	15 - 19	PhD	Computational Geometry
Qi Dong	18 winter	UG research	Computational Geometry
Martin Derka	17 - 18	NSERC Postdoc	Computational Geometry
Esra Saleh	17 summer	NSERC USRA	Computational Geometry
Nicolas Lalonde	17 summer	DSRI	Computational Geometry
Sander Verdonshot	15 - 18	PostDoc	Computational Geometry
Frédéric Paradis	15 - 17	Masters	Computational Geometry
Bahaa Khaddaj	18 - 19	Masters	Computational Geometry
Alina Shaikhet	12 - 17	PhD	Computational Geometry
Hugo Tremblay	16 - 17	Postdoc	Graph Theory
Ahmad Biniiaz	16 - 17	Postdoc	Computational Geometry
Anthony D'Angelo	14 - 16	Masters	Algorithms
Qi Dong	16 summer	UG research	Computational Geometry
Xiyi liu	16 summer	DSRI UG research	Computational Geometry
Justin Kim	16 summer	DSRI UG research	Computational Geometry
Luis Felipe Barba	12 - 16	PhD	Computational Geometry
Mahdi Amani	15 - 15	PhD (exchange)	Algorithms

Name	Years	Degree	Thesis Topic
Tommy Reddad	13 - 15	Masters	Algorithms
Lucas Rioux Maldague	14 - 15	Masters	Computational Geometry
Sander Verdonshot	10 - 15	PhD	Flips and Spanners
Darryl Hill	13 - 15	Masters	Computational Geometry
Chris Hoedemakers	14 - 15	Masters (exchange)	Computational Geometry
Micha Krauter	14 - 15	Masters (exchange)	Computer Vision
Jean-Lou De Carufel	09 - 15	PostDoc	Computational Geometry
André van Renssen	10 - 14	PhD	Algorithms and Data Structures
Vafa Khoshaein	12 - 14	Masters	Computer Vision
Maxime Peabody	14 summer	NSERC USRA	Networks
Anthony D'Angelo	14 summer	NSERC USRA	Networks
Maxime Peabody	13 - 14	UG Research Asst.	Computational Geometry
Pokong Lai	11 - 13	Masters	Image Processing
Dan Chen	07 - 13	PhD	Computational Geometry
Nima Hoda	11 - 12	UG Research Asst.	Computational Geometry
John Howat	08 - 12	PhD	Distribution Sensitive Data Structures
Vida Dujmovic	08 - 11	PostDoc	Graph Drawing
Christian Wulff-Nilson	10 - 11	PostDoc	Computational Geometry
Dana Jansens	10 - 11	PhD	Algorithms and Data Structures
Dania El-Khechen	09 - 11	PostDoc	Computational Geometry
Ken Chan	09 - 10	Masters	Computational Geometry
Karim Douieb	08 - 10	PostDoc	Computational Geometry
Mohammad Farshi	07 - 09	PostDoc	Computational Geometry
Gail Banaszkiwicz	07 - 09	Masters	Computer Vision
Greg Aloupis	05 - 09	Part-time PostDoc	Computational Geometry
Drew Martin	09 summer	NSERC USRA	Computational Geometry
Greg Bint	09 summer	Dean's SRA	Computational Geometry
Vafa Khoshaein	09 summer	NSERC USRA	Image Processing
Stefanie Wuhrer	06 - 09	PhD (Senate Medal)	Computer Vision
Paz Carmi	06 - 09	PostDoc	Computational Geometry
Meng He	07 - 08	PostDoc	Computational Geometry
John Howat	07 - 08	Masters	Computational Geometry
Pokong Lai	08 summer	NSERC USRA	Computational Geometry
Vafa Khoshaein	08 summer	NSERC USRA	Image Processing
Mathieu Couture	05 - 08	PhD (Senate Medal)	Wireless Networks
Yihui Tang	02 - 08	PhD	Data Structures for Data Streams
John Howat	07 summer	Summer Research	Computational Geometry
Irwin Zaid	07 summer	Summer Research	Computational Geometry
Christian Muise	07 summer	Summer Research	Computational Geometry
Vida Dujmovic	04 - 06	PostDoc	Graph Drawing
Stefanie Wuhrer	05 - 06	Masters	Clamshell Casting
Evan Hahn	04 - 06	Masters	Persistent Building Interior Generation
David Hallam	00 - 06	Masters (Part-time)	Image Processing
Christian Leger	05 and 06	NSERC Summer	Data Structures
Derek Bradley	03 - 05	Masters - Senate Medal	Computer Vision
David Wood	01 - 04	PostDoc	Graph Drawing
Anthony Whitehead	01 - 04	PhD - OCRI Best Grad Student	Image Processing
Aaron Lee	01 - 04	Masters	Constrained Spanners
Veronique Audet	00 - 02	Masters	Image Processing for Cancer Detection
Chris McDonald	00 - 02	Masters	Augmented Reality
Shahzad Malik	00 - 01	Masters - University Medal	Real-time Augmented Reality
Qingda Wang	00 - 01	Masters - Senate Medal	Obnoxious Facility Location

Name	Years	Degree	Thesis Topic
Jillian Hockey	98 - 01	Masters	Experimental Results on the Weber Center
Dominic Lessard	98 - 00	Masters	Optimally Tiling a Room
Jean Denis Caron	98 - 00	Masters	Textline Orientation
Jason Morrison	97 - 02	PhD	Geometric Optimization Problems
Patrick Morin	97 - 01	PhD - Senate Medal	Online Routing in Graphs
Said Benameur	97 - 98	Masters	A study of graph spanners

Undergraduate Honors Project Supervision:

Name	Year	4th year B.C.S. Project
Irving Ou	2023	Randomized Linear Programming
Joyce Bacic	2022	Constrained k -enclosing sets
Mia Chen	2022	Variants of Linear Programming
Nicholas Lalonde	2022	Low degree plane spanners
Patrick Shipton	2021	Properties of optimal BSTs
Ali Elkholy	2021	Image Similarity
Jacob Boertjes	2020	Nearest Neighbor Problems
Jaime Herzog	2020	Automated Cut Detection
Zoltan (William) Kalnay	2020	Amortized Skip Lists
Nathaniel (Austin) Mitchell	2020	Semi-splay trees
Bence Meszaros	2020	Delaunay Triangulations Simplified
Richard St. John	2020	The Geometry of Binary Search Trees
Christopher Blackman	2019	Rendez-vous problems
Noah Steinberg	2019	Hashing
Zachary Fry	2019	Client-Server problems
Jeremy Melone	2019	Smallest enclosing disk containing k points
Tian Siyang	2014	Data Structures
Anthony D'Angelo	2014	Computer Vision
Jean Phillipe Landry	2013	Text Compression
Drew Martin	2012	Collision Detection
Chaman Chahal	2012	Scheduling System
Stefan Valiau	2011	Searching in Compressed Text
Po Kong Lai	2011	Approximation algorithms for curves and terrains
Michael Cayer	2010	Comparison of Compression Techniques
Gail Banaszkievicz	2007	Computer Vision
Mark Wong	2007	Computer Vision
Christian Leger	2005	Image Segmentation
Mark Wong	2004	Computer Generated Models
Rossen Atanosov	2004	Experiments with Triangular Meshes
Peter Tang	2004	An intelligent advertisement aid
Cara Lin	2002	Experiments with Data Structures
Steven Koupenov	2002	Planar Graph Embeddings
Jon Harris	2001	Feature Extration in Maps
Irina Guilman	2001	Computing the thinnest Annulus
Jason Walton	2001	NP-Hardness and approximation algorithms
Wojciech Kozlowski	2001	KD-trees and range searching
Ralf Dagher	2000	Medial Axis Computation
David Hallam	2000	3D Delaunay Spanners
Guillermo Tempo	2000	Skip Lists
Tara Graves	1999	Vehicule Routing
Ian Bainaker	1998	Triangulation Spanners

Name	Year	4th year B.C.S. Project
Patrick Hamel	1997	Decomposing the surface of a Polyhedron into Terrains

Directed Studies Course:

Name	Topic	Duration
Mike Bremner	Computational Geometry	W21
Kyle Thompson	Advanced Data Structures	F16
Dabeluchi Ndubisi	Advanced Data Structures	F16
Ben Seamone	Geometric Spanners	W09
Gail Banaszkiwicz	Computer Vision	W07
David Shultz	Computer Vision	W07
Rossen Atanasov	Computer Vision	S05
Christian Leger	Computer Vision	S05
Veronique Audet	Image Processing (Inpainting)	S02
Dominic Laberge	Kinetic Data Structure	F01
Norbert Zeh	Dynamic Data Structures	W00
Patrick Morin	Dynamic Data Structures	F99
Jason Morrison	Dynamic Data Structures	F99
Dominic Lessard	Optimization Problems	W99
Dominic Lessard	Partitioning Problems	F98

Collaborators:

I have collaborated with the following 195 researchers from around the world (note that my students' and former students' names appear in boldface): *O. Aichholzer, S. Allan, R. Atanassov, B. Aronov, M. Abellanas, P. Agarwal, H.-K. Ahn, G. Aloupis, T. Asano, B. Asberg, Z. Abel, Z. Azouz, V. Audet, D. Avis, S. Won Bae, A. Beingessner, N. Benbernou, L. Felipe Barba, M. Barbeau, G. Barequet, G. Di Battista, S. Beauchemin, P. Belleville, S. Bereg, M. de Berg, T. Biedl, G. Blanco, D. Bradley, D. Bremner, A. Brodnik, J. Buss, B. Ballinger, A. Brunton, G. Carmichael, J. Cardinal, L. Chaitman, E. Chen, M. Couture, P. Carmi, V. Campos, S. Collette, S. Collette, S. Cabello, S. Carlsson, J-D. Caron, A. Chan, O. Cheong, S. Cheng, A. Chalifour, N. Coll, J. Czyzowicz, A. Dean, F. Dehne, E. D. Demaine, S. Durocher, M. Demaine, K. Douieb, L. Devroye, M. Dickerson, K. Dobrindt, M. Damian, A. Dumitrescu, V. Dujmović, W. Evans, H. Everett, S. Fekete, R. Fagerberg, R. Flatland, M. Farshi, T. Fevens, R. Fleischer, J. Gao, C. Gray, C. Grimm, A. García, J. García, K. Ghoudi, F. Gomez, M. Goodrich, M. de Groot, J. Gudmundsson, L. Guibas, H. Guo, M. He, N. Hoda, J. Howat, D. Halperin, N. Hanusse, M. Houle, F. Hurtado, E. Hahn, J. Hutchinson, J. Iacono, D. Jansens, M. Katz, C. Kaklamanis, M. Korman, S. Kominers, D. Kirkpatrick, M. Keil, L. Kirousis, E. Kranakis, M. van Kreveld, D. Krizanc, A. Lee, R. Laganière, S. Langerman, M. Latzel, P. Lai, J-L. De Carufel, M. Löffler, W. Lenhart, D. Lessard, Z. Li, G. Liotta, A. López-Ortiz, A. Lubiw, A. Mukhopadhyay, A. Maheshwari, M. Mora, J. Matousek, M. McAllister, H. Meijer, P. Morin, J. Morrison, J. I. Munro, C. Nicolás, G. Narasimhan, L. Narayanan, F. Nouboud, D. Nussbaum, E. Omana-Pulido, M. Overmars, V. Pathak, B. Palop, M. Paquette, A. Por, A. Pelc, D. Peleg, S. Ramaswami, P. Ramos, A. van Renssen, S. Roy, D. Rappaport, J. O'Rourke, E. Rivera-Campo, K. Romanik, T. Roos, G. Rote, G. Roth, C. Shu, J. Sack, V. Sacristan, B. Seamone, C. Sampson, C. Seara, M. Saumell, J.A. Sellares, S. Sethia, T. Shermer, M. Smid, M. Smid, J. Snoeyink, D. Souvaine, B. Speckmann, I. Stojmenović, J. Szanto, Y. Tang, J. Tejel, G. T. Toussaint, P. Taslakian, A. Turki, J. Urrutia, R. Uehara, J. Vahrenhold, S. Verdonschot, V. Verma, M. Vargas, P. Valtr, A. Vigneron, L. Vought, Q. Wang, A. Whitehead, S. Wuhrer, S. Whitesides, G. Wilfong, S. Wismath, D. Wood, D. Xu, S. Yu, M. Yagnatinsky, J. Zaks, N. Zeh, C. Zelle, B. Zhu,*

Invited lectures:

Date	Place and Lecture
Feb 2022	Keynote Speaker, ICCG, Saeed Mehrabi Memorial Lecture: The final problem I worked on with Saeed
Dec 2021	Keynote Speaker, ISAAC, Spanning Properties of Variants of the Delaunay Graph
Mar 2021	Invited Speaker, Tufts University, Finding a path without a map.

Date	Place and Lecture
Feb 2020	Encounter with Canada Why Computer Science?
Oct 2019	College Notre-Dame, Path planning in networks.
Jan 2019	College Notre-Dame, How does your GPS work?
June 2018	Invited Speaker, Association Mathématique du Québec, GPS routing and colouring points
Apr 2018	Research Seminar, Waterloo, Online Competitive Routing on Delaunay Graphs and its Variants
Mar 2018	Keynote Speaker, EuroCG, Online Competitive Routing on Delaunay Graphs and its Variants
Nov 2017	Invited Speaker, Shonan Research Seminar, On Plane Geometric Spanners
Oct 2017	Distinguished Research Seminar, Queens University, How to find your way without a map
Oct 2017	Research Seminar, NYU, Online routing in geometric graphs
Oct 2017	Research Seminar, NYU, On spanning properties of Delaunay graphs
June 2017	Invited Speaker, Association Mathématique du Québec, Online Routing
May 2017	College Notre-Dame, Coloring points
Apr 2017	U of Rome, 4 talks on Spanners and Routing
Jun 2016	Invited Speaker, STOC/SoCG Workshop on spanners, On Geometric Spanners
Sept 2015	Invited Speaker JCDCG 2015, Ferran Hurtado: True Renaissance Man
Aug 2015	Invited Speaker CCCG 2015, Flips
Nov 2014	Laval Univ., Flips
Jan 2014	U of Bordeaux (Labri), Flips
Nov 2013	Dalhousie Univ., Competitive routing on half- θ_6
Sept 2013	Laval Univ., On Geometric Spanners
Sept 2013	Univ. of Manitoba, Routing on a Variant of the Delaunay Triangulation
Feb 2013	Sharif University, Various properties of Plane Spanners
Feb 2013	Amirkabir University, Winter School on Computational Geometry
Jan 2013	Univ. du Québec en Outaouais, Routing on a variant of the Delaunay Triangulation
Nov 2012	U of Bordeaux (Labri), Routing on a variant of the Delaunay Triangulation
Sept 2012	Invited Speaker, Graph Drawing 2012 (Microsoft), Flips
Sept 2012	Carleton EDC, How an allergy lead to the development of an interesting teaching tool
June 2012	Invited Speaker, ISVD 2012 (Rutgers), On spanning properties of various Delaunay graphs
Apr 2012	Georgia Tech University, Competitive Routing on Plane Graphs.
Nov 2011	Tufts University, Competitive Routing on Plane Graphs.
Nov 2011	Tufts University, Flips in Planar Graphs
Oct 2011	Univ. Poly. de Catalunya, Competitive Routing on Plane Graphs.
Jun 2011	Invited Speaker, ECG 2011 (Madrid), On plane geometric spanners
Nov 2010	U of Bordeaux (Labri), On Bounded Degree Plane Spanners
Nov 2010	U of Bordeaux (Labri), Plane Spanners - A Survey
Sep 2010	Carleton EDC, How an allergy lead to the development of an interesting teaching tool
Sep 2010	Carleton, How to write a successful application
Feb 2010	Carleton, How to write a research proposal
Dec 2009	Carleton EDC, How an allergy lead to the development of an interesting teaching tool
Nov 2009	Dagstuhl, On plane geometric spanners
July 2009	Keynote speaker, Canadian Undergraduate Math Conf., Carleton, Geometric Spanners
May 2009	U. Libre Brussels, Flips
Mar 2009	U of Kaiserslautern, Flips in triangulations
Mar 2009	Invited Speaker, EUROCG 2009, On plane geometric spanners
Oct 2008	U. of Waterloo, Path planning without a map
July 2008	U. Southern Denmark, On Flips in Triangulations
May 2008	Invited Speaker, Ontario Combinatorics Workshop, A review of geometric spanners.
Mar 2008	Queens University, How to get where you want to go without a map?
Feb 2008	Dagstuhl, On Geometric Spanners of Bounded Degree
May 2007	Algorithms Seminar, Université Libre de Bruxelles, Geometric Spanners
Mar 2007	Algorithms Seminar, McGill University, On Geometric Spanners
Oct 2006	Math Society Seminar, Carleton University, Online Routing in Graphs

Date	Place and Lecture
Feb 2006	INFONET Seminar, Carleton University, Routing in Geometric Graphs
June 2005	Plenary Address at Encuentros de Comp. Geom., Flips in Triangulations
June 2005	Univ. Poly. de Catalunya, Bottleneck Shortest Paths
May 2005	JAIST, Open Problems in Facility Location
Nov 2004	SITE Optical Network Research Centre, Online Routing in Geometric Graphs
July 2004	Dagstuhl, Bottleneck Shortest Path Queries
April 2004	M.I.T, Online Routing in Plane Graphs
Mar 2004	Dagstuhl, Succinct Data Structures for Approximating Convex Functions
Jan 2004	Simon Fraser University, Simultaneous Flips in Triangulations
Oct 2003	Dagstuhl, Flips in Triangulations
Oct 2003	Univ. of Eindhoven, Parallel Flips in Triangulations
Oct 2003	Université Libre de Bruxelles , Parallel Flips in Triangulations
June 2003	AMS-RSME special session on CG, Parallel Flips in Triangulations
June 2003	Univ. Poly. de Catalunya, Online routing in geometric graphs
May 2003	Univ. Poly. de Catalunya, Planar Geometric Spanners of Bounded Degree and Low Weight
Mar. 2003	Univ. Poly. de Catalunya, Data Structures for Facility Location
Nov. 2002	Simon Fraser Univ., Online routing in planar graphs
Oct. 2002	NRC, IT Division, On Embedding Planar Graphs
June 2002	MITACS/PIMS (SFU), Facility Location with Constraints
Mar 2002	Dagstuhl, On Max-Clique Trees with Applications
Jan. 2002	Carleton/Ottawa Combinatorics, Guarding Polyhedral Terrains
Oct. 2001	Université du Québec à Hull, Online Routing in Geometric Graphs
Sept 2001	Queens University, Routing in Geometric Graphs
April 2001	Utrecht University, Online Routing in Graphs
Dec. 2000	University of Sydney, Path Planning in Triangulations

Invited Lectures (1993-2000):

Carleton University (2), McGill University (3), Université du Québec à Hull, Université du Québec à Montréal (2), Middlebury College, University of Arizona (2), Université du Québec à Trois-Rivières (4), Universidad Politecnica de Madrid (3), Universidad Politecnica de Catalunya (2), Simon Fraser University, Université de Montréal, Centro de Investigacion y de Estudios Avanzados del Instituto Politecnico Nacional, University of Ottawa.

Contributions to the Scientific Community:

Year	Position	Activity
2023	Committee Member	Early Researcher Award (Ont Govt)
2023	Program Committee	Algorithms and Data Structures Symposium (WADS), Montreal
2023	Program Committee	CCCG 2023, Montreal
2023	Committee Member	CFI: Multidisciplinary Assessment Committee
2022	Committee Member	German Research Foundation (Deutsche Forschungsgemeinschaft DFG)
2022	Program Committee	CCCG 2022
2021	Committee Member	Early Researcher Award (Ont Govt)
2021	Program Committee	CCCG 2021
2021	Program Committee	Canadam 2021
2020	Committee Member	Early Researcher Award (Ont Govt)
2020	Committee Member	CFI: Multidisciplinary Assessment Committee
2020	Program Committee	LATIN 2020
2020	Program Committee	SoCG Media Exposition 2020
2019	Committee Member	Early Researcher Award (Ont Govt)
2019	Program Committee	Graph Drawing 2019
2019	Program Committee	SoCG 2019

Year	Position	Activity
2019	Program Committee	CCCG 2019
2019	Organizing Committee	CCCG 2019
2019	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2019	Program Committee	Encuentros de Geomtria Computacional (EGC), Spain.
2019	Program Committee	WALCOM 2019, India.
2019	Committee Member	NSERC Chair for Women in Science Renewal Committee
2018	Committee Member	Early Researcher Award (Ont Govt)
2018	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2017	Program Committee	Encuentros de Geometria Computacional (EGC)
2017	Program Committee	EuroCG 2017
2017	Organizing Committee	Canadian Conference on Computational Geometry
2017	Co-organizer	Workshop on Computational Geometry, Fields Institute, Ottawa
2017	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2016	Committee Chair	Early Researcher Award (Ont Govt)
2016	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2016	Organizing Committee	Canadian Conference on Computational Geometry
2016-19	Chair of Steering Committee	Canadian Conference on Computational Geometry
2016	Program Committee	Canadian Conference on Computational Geometry
2016	Program Committee	Encuentros de Geometria Computacional (EGC)
2016	Guest Editor	TCS Special Issue for Algosensor 2015
2015	Committee Chair	Early Researcher Award (Ont Govt)
2015	Guest Editor	CGTA Special Issue in Memoriam Ferran Hurtado
2015	Program Track Chair	Wireless/Geometry Algosensor 2015
2015	Program Committee	Encuentros de Geometria Computacional (EGC)
2015	Co-organizer	Workshop on Computational Geometry, BIRS
2015	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2014	Program Committee	Graph Drawing
2014	Committee Member	Early Researcher Award, Ontario Govt
2014	Program Committee	EuroCG
2014 -	Associate Editor	Journal of Computer and System Science (JCSS)
2014	Program Committee	Encuentros de Geometria Computacional (EGC)
2014	Program Committee	Conf. on Wireless and Mobile (APWiMob), Bali
2014	Program Committee	Canadian Conf. on Comp. Geom (CCCG), Halifax
2014	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2013	Program Committee	Algosensor 2013
2013	Program Committee	Encuentros de Geometria Computacional (EGC)
2013	Co-organizer	Workshop on Computational Geometry, Bellairs McGill
2012	Editorial Board	Journal of Graph Algorithms and Applications (JGAA)
2012	Editorial Board	ISRN Discrete Mathematics Journal
2012	Program Committee	Encuentros de Geometria Computacional (EGC)
2012	Committee Member	FQRNT Evaluation Committee
2012	Committee member	Comp Geom: Applications, Practice and Theory (CG:APT)
2012-15	President	NSERC Committee on Scholarships and Fellowships
2012-15	Committee member	NSERC Committee on Grants and Scholarships (COGS)
2012	Program Committee	Analysis of Algorithms (A of A), Montreal
2011	Program Committee	Algorithms and Data Structures Symposium (WADS), NY
2011-13	Associate Editor	The Visual Computer, Springer Verlag
2011	Program Committee	ACM Symp. on Comp. Geom (SoCG), Paris
2011	Program Committee	Int. Conf. Dist. Comp. for Sensor Networks (DCOSS)
2011	Program Committee	Canadian Conf. on Comp. Geom (CCCG), PEI
2010	Board Member	Center for Graduate Education, JAIST
2010	Committee Member	NRAS Research Team Evaluation Committee in BC

Year	Position	Activity
2010	Committee Member	Mitacs Elevate
2010	Committee Member	FQRNT Evaluation Committee
2010	Program Committee	ALGOSENSORS
2010	Program Committee	Canadian Conf. on Comp. Geom (CCCG), Winnipeg
2009	Program Committee	Int. Conf. Dist. Comp. for Sensor Networks (DCOSS)
2009	Program Committee	Canadian Conf. on Comp. Geom (CCCG), Vancouver
2008	Program Committee	Canadian Conf. on Comp. Geom (CCCG), Montréal
2008	Committee Member	FQRNT Evaluation Committee
2007	Program and Conference Chair	Canadian Conf. on Comp. Geom (CCCG)
2007	Program Committee	AdHocNow, Mexico
2007	Committee Member	FQRNT Evaluation Committee
2007	Program Committee	Int. Symp on Algorithms and Computation
2007	Program Committee	IEEE Wireless Comm. and Networking
2006	Program Committee	AdHocNow, Canada
2006	Program Committee	CATS, Australia
2006	Committee Member	FQRNT Evaluation Committee
2006	Editor	Computational Geometry: Theory and Appl., Special Issue
2005	Co-organizer	Workshop on Computational Geometry, Gatineau
2005	Program Committee	AdHocNow, Mexico
2005	Editor	Algorithmica Special Issue with P. Morin
2005	Editor	Theory of Computing Systems, Special Issue
2005	Committee Member	FQRNT Evaluation Committee
2005	Editor	Computational Geometry: Theory and Appl., Special Issue
2005	Program Committee	Canadian Conference on Comp. Geom
2005	Organizing Committee	Canadian Conference on Comp. Geom
2004	Organizing Committee	Canadian Conference on Comp. Geom
2004	Program Committee	28th Australasian Computer Science Conference
2004	Committee Member	FQRNT Centre of Excellence Evaluation Committee
2003	Committee Member	FQRNT Centre of Excellence Evaluation Committee
2003	Organizing Committee	Canadian Conference on Comp. Geom, Halifax
2003	Program Committee	International Symp. on Algorithms and Computation
2003	Program Committee	ACM Symp. on Comp. Geom, Program Committee
2003	Program Committee	27th Australasian Computer Science Conference
2003	Co-organizer	Workshop on Geometric Data Structures, Eindhoven
2002	Program and Conf. Chair	Int. Symp. on Alg. and Computation
2002	Editor	Proceedings for ISAAC, with P. Morin
2002	Co-organizer	Workshop on Facility Location, Vancouver
2002	Co-organizer	Workshop on Geometric Networks, Utrecht
2001	Program Committee	Int. Symp. on Algorithms and Computation
2000	Co-organizer	Workshop on Applied Geometric Computing, McGill
2000	Program Committee	Canadian Conf on Comp Geom
1999	Program Committee	Canadian Conf on Comp Geom
1999	Co-organizer	Workshop on Applied Geometric Computing, McGill
1998	Organizing Committee	Graph Drawing 98, McGill
1997	Program Committee	Canadian Conf on Comp Geom
1997	Co-organizer	Workshop on Geometric Computing
1996	Organizer	ACFAS special session on Comp Geom, McGill
1995	Organizing Committee	ACM Symp. on Computational Geometry, UBC

Referee for following:

Algorithmica, Computer Aided Design, Computational Geometry: Theory and Applications, Discrete and Computa-

tional Geometry Information Processing Letters, International Journal of Computational Geometry, Pattern Recognition, Theoretical Computer Science, McGraw Hill Publishing.

Examiner for following students:

Year	Student	Type of Examiner
2021	Antonin Lentz	External Examiner on PhD (Bordeaux)
2021	Sima Hajiaghahi Shanjani	External Examiner on PhD (Victoria)
2020	Celine Yelle	Examiner Masters (U of O)
2019	Po Lai	Examiner on PhD (University of Ottawa)
2016	Andres Montero	Examiner on PhD (University of Ottawa)
2013	Nicholas Bonichon	External Examiner on Habilitation (Bordeaux University)
2012	Quentin Godfroy	External Examiner on Phd (Bordeaux University)
2012	Ben Seamone	Internal/External Examiner on PhD (Carleton)
2012	Raheleh Niati	Internal/External Examiner on PhD (Carleton)
2011	Richard Monette	Internal/External Examiner on Masters (Carleton)
2010	Kamrul Islam	External Examiner on PhD (Queens)
2009	Ilya Volnyansky	External Examiner on Masters (U of O)
2008	Karim Douieb	External Examiner on PhD (ULB Belgium)
2008	Yago Diez	External Examiner on PhD (UPC Catalunya Spain)
2008	Hamid Zarrabi-Zadeh	External Examiner on PhD (Waterloo)
2008	Sylvain Beriault	External Examiner on Masters (U of O)
2008	Damian Merrick	External Examiner on PhD (U of Sydney)
2007	Ervin Ruci	Internal-External on Masters (Carleton)
2007	Pengcheng Xi	External Examiner on Masters (U of O)
2004	Etienne Vincent	PhD Committee member and Examiner (U of O)
2004	Harish Gopala	Internal-External on Masters (Carleton)
2004	Hassan Hajjdiab	PhD Committee member and Examiner (U of O)
2004	Andrew Miles	Internal Examiner on Masters (Carleton)
2004	Shuye Pu	Examining committee chair on Masters (Carleton)
2003	Moaning Wang	Internal Examiner on Masters (Carleton)
2002	Felipe Contreras	External Examiner on PhD (U of O)
2002	Benny Pinontoan	Internal-External Examiner on PhD (Carleton)
2001	Heekap Ahn	External Examiner on PhD (Utrecht Netherlands)
2001	Danielle Vella	External Examiner on Masters (U of O)
2001	Mohamed Shentenawy	Internal Examiner on Masters (Carleton)
2000	Jay Adamsson	Internal-External Examiner on PhD (Carleton)
2000	Vivian Lee	Internal Examiner on Masters (Carleton)
2000	Xu Lin	External Examiner on Masters (U of O)
1999	Nicolas Fraiji	External Examiner on Masters (U of O)
1999	Jianwen Wang	Internal Examiner on Masters (U of O)
1998	Harvinder Singh	External Examiner on Masters (U of O)
1998	Richard Webber	External Examiner on PhD (U of Sydney)
1998	Toni Sellares	External Examiner on PhD (UPC)

Skills:

Languages	English and French (spoken and written), Some Bengali and Spanish
Programming languages	C, C++, Java, Perl
Operating systems	Linux, Windows 95/98/NT/2000
Software libraries	LEDA

Publications:

Submitted Papers

- [1] Bhore, S., Bose, P., Cardinal, J., Cano, P., and Iacono, J. Dynamic schnyder woods. *CCCG*, 2023.
- [2] Biniáz, A., Bose, P., and Gavaille, C. The relationship between minimum degree and maximum independent sets in planar graphs. *TBD*, 2023.
- [3] Biniáz, A., Bose, P., and Shermer, T. Piercing unit geodesic disks. *CCCG*, 2023.
- [4] Bose, P., Carufel, J.-L. D., and Shermer, T. Pursuit-evasion in graphs: Zombies, lazy zombies and a survivor. *SIAM Journal of Discrete Math*, 2023.
- [5] Bose, P., D'Angelo, A., and Durocher, S. Ccoskeg discs in simple polygons. *CCCG*, 2023.
- [6] Bose, P., Carufel, J. D., Hill, D., and Smid, M. H. M. On the spanning and routing ratio of theta-four. *SIAM J of Computing*, 2021.
- [7] Bose, P., Fogel, E., Geft, T., Halperin, D., and Shamai, S. On the separation of a polyhedron from its single-part mold. *submitted*, 2021.
- [8] Bose, P., Cardinal, J., Iacono, J., Koumoutsos, G., and Langerman, S. Competitive online search trees on trees. *TALG*, 2020.
- [9] Bose, P., Dujmovic, V., Javarsineh, M., and Morin, P. Asymptotically optimal vertex ranking of planar graphs. *Journal of Combinatorial Series B*, 2020.
- [10] Bonichon, N., Bose, P., Carufel, J. D., Despré, V., Hill, D., and Smid, M. H. M. Improved routing on the delaunay triangulation. *Discrete and Computational Geometry*, 2019.
- [11] Bose, P., Carufel, J. D., Shaikhét, A., and Smid, M. Art gallery localization. *CGTA*, 2017.

Journal Papers

- [1] Akitaya, H. A., Biniáz, A., Bose, P., Carufel, J. D., Maheshwari, A., da Silveira, L. F. S. X., and Smid, M. The minimum moving spanning tree problem. *J. Graph Algorithms Appl.*, 27(1):1-18, 2023.
- [2] Bose, P., Carmi, P., Dujmovic, V., Mehrabi, S., Montecchiani, F., Morin, P., and da Silveira, L. F. S. X. Geodesic obstacle representation of graphs. *Comput. Geom.*, 109:101946, 2023.
- [3] Bose, P., Esteban, G., Orden, D., and Silveira, R. I. On approximating shortest paths in weighted triangular tessellations. *Artif. Intell.*, 318:103898, 2023.
- [4] Aichholzer, O., Borrizzo, M., Bose, P., Cardinal, J., Frati, F., Morin, P., and Vogtenhuber, B. Drawing graphs as spanners. *Discret. Comput. Geom.*, 68(3):774-795, 2022.
- [5] Akitaya, H. A., Biniáz, A., and Bose, P. On the spanning and routing ratios of the directed Θ_6 -graph. *Comput. Geom.*, 105-106:101881, 2022.
- [6] Biniáz, A., Bose, P., Lubiw, A., and Maheshwari, A. Bounded-angle minimum spanning trees. *Algorithmica*, 84(1):150-175, 2022.
- [7] Bose, P., Cano, P., Fagerberg, R., Iacono, J., Jacob, R., and Langerman, S. Fragile complexity of adaptive algorithms. *Theor. Comput. Sci.*, 919:92-102, 2022.
- [8] Bose, P., Carmi, P., Keil, J. M., Maheshwari, A., Mehrabi, S., Mondal, D., and Smid, M. Computing maximum independent set on outerstring graphs and their relatives. *Comput. Geom.*, 103:101852, 2022.
- [9] Bose, P., D'Angelo, A., and Durocher, S. On the restricted k-steiner tree problem. *J. Comb. Optim.*, 44(4):2893-2918, 2022.

- [10] Bose, P., Dujmovic, V., Javarsineh, M., Morin, P., and Wood, D. R. Separating layered treewidth and row treewidth. *Discret. Math. Theor. Comput. Sci.*, 24(1), 2022.
- [11] Bose, P., Dujmovic, V., Javarsineh, M., Morin, P., and Wood, D. Separating layered treewidth and row treewidth. *Discrete Mathematics and Theoretical Computer Science*, *accepted*, 2022.
- [12] Bose, P., Mehrabi, S., and Mondal, D. Parameterized complexity of two-interval pattern problem. *Theor. Comput. Sci.*, 902:21–28, 2022.
- [13] Bose, P., Cano, P., and Silveira, R. I. Affine invariant triangulations. *Comput. Aided Geom. Des.*, 91:102039, 2021.
- [14] Bose, P., Carmi, P., and Shermer, T. C. Piercing pairwise intersecting geodesic disks. *Comput. Geom.*, 98:101774, 2021.
- [15] Bose, P., Korman, M., van Renssen, A., and Verdonschot, S. Constrained routing between non-visible vertices. *Theor. Comput. Sci.*, 861:144–154, 2021.
- [16] Bose, P., and Shermer, T. C. Attraction-convexity and normal visibility. *Comput. Geom.*, 96:101748, 2021.
- [17] Carufel, J. D., Bose, P., Paradis, F., and Dujmovic, V. Local routing in wspd-based spanners. *J. Comput. Geom.*, 12(1):1–34, 2021.
- [18] Bahoo, Y., Bose, P., Durocher, S., and Shermer, T. C. Computing the k -visibility region of a point in a polygon. *Theory Comput. Syst.*, 64(7):1292–1306, 2020.
- [19] Biniiaz, A., Bose, P., Carmi, P., Maheshwari, A., Munro, J. I., and Smid, M. H. M. Faster algorithms for some optimization problems on collinear points. *J. Comput. Geom.*, 11(1):418–432, 2020.
- [20] Bose, P., Cano, P., Saumell, M., and Silveira, R. I. Hamiltonicity for convex shape delaunay and gabriel graphs. *Comput. Geom.*, 89:101629, 2020.
- [21] Bose, P., Carufel, J. D., and Devillers, O. Expected complexity of routing in θ_6 and half- θ_6 graphs. *J. Comput. Geom.*, 11(1):212–234, 2020.
- [22] Bose, P., Carufel, J. D., Shaikhet, A., and Smid, M. H. M. Optimal art gallery localization is np-hard. *Comput. Geom.*, 88:101607, 2020.
- [23] Bose, P., Durocher, S., Mondal, D., Peabody, M., Skala, M., and Wahid, M. A. Local routing in convex subdivisions. *Int. J. Comput. Geom. Appl.*, 30(1):1–17, 2020.
- [24] Bose, P., Gledel, V., Pennarun, C., and Verdonschot, S. Power domination on triangular grids with triangular and hexagonal shape. *J. Comb. Optim.*, 40(2):482–500, 2020.
- [25] Bose, P., Kostitsyna, I., and Langerman, S. Self-approaching paths in simple polygons. *Comput. Geom.*, 87:101595, 2020.
- [26] Bose, P., and Shermer, T. C. Gathering by repulsion. *Comput. Geom.*, 90:101627, 2020.
- [27] Arseneva, E., Bose, P., Cano, P., D'Angelo, A., Dujmovic, V., Frati, F., Langerman, S., and Tappini, A. Pole dancing: 3d morphs for tree drawings. *J. Graph Algorithms Appl.*, 23(3):579–602, 2019.
- [28] Bahoo, Y., Banyassady, B., Bose, P. K., Durocher, S., and Mulzer, W. A time-space trade-off for computing the k -visibility region of a point in a polygon. *Theor. Comput. Sci.*, 789:13–21, 2019.
- [29] Biniiaz, A., Bose, P., Crosbie, K., Carufel, J. D., Eppstein, D., Maheshwari, A., and Smid, M. H. M. Maximum plane trees in multipartite geometric graphs. *Algorithmica*, 81(4):1512–1534, 2019.
- [30] Biniiaz, A., Bose, P., Ooms, A., and Verdonschot, S. Improved bounds for guarding plane graphs with edges. *Graphs Comb.*, 35(2):437–450, 2019.

- [31] Bose, P., Fagerberg, R., van Renssen, A., and Verdonschot, S. On plane constrained bounded-degree spanners. *Algorithmica*, 81(4):1392–1415, 2019.
- [32] Bose, P., and van Renssen, A. Spanning properties of yao and theta-graphs in the presence of constraints. *Int. J. Comput. Geom. Appl.*, 29(2):95–120, 2019.
- [33] Rockley, M., Hadziomerovic, A., van Walraven, C., Bose, P., Scallan, O., and Jetty, P. A new angle on aortic neck angulation measurement. *Journal of Vascular Surgery*, 70(3):756–761, 2019.
- [34] Aronov, B., Bose, P., Demaine, E. D., Gudmundsson, J., Iacono, J., Langerman, S., and Smid, M. H. M. Data structures for halfplane proximity queries and incremental voronoi diagrams. *Algorithmica*, 80(11):3316–3334, 2018.
- [35] Bakhshesh, D., Barba, L., Bose, P., Carufel, J. D., Damian, M., Fagerberg, R., Farshi, M., van Renssen, A., Taslakian, P., and Verdonschot, S. Continuous yao graphs. *Comput. Geom.*, 67:42–52, 2018.
- [36] Biniáz, A., Bose, P., Eppstein, D., Maheshwari, A., Morin, P., and Smid, M. H. M. Spanning trees in multipartite geometric graphs. *Algorithmica*, 80(11):3177–3191, 2018.
- [37] Biniáz, A., Bose, P., Maheshwari, A., and Smid, M. H. M. Plane bichromatic trees of low degree. *Discret. Comput. Geom.*, 59(4):864–885, 2018.
- [38] Bose, P., Carufel, J. D., and van Renssen, A. Constrained generalized delaunay graphs are plane spanners. *Comput. Geom.*, 74:50–65, 2018.
- [39] Bose, P., Hill, D., and Smid, M. H. M. Improved spanning ratio for low degree plane spanners. *Algorithmica*, 80(3):935–976, 2018.
- [40] Bose, P., Korman, M., Verdonschot, S., and van Renssen, A. Routing on the visibility graph. *J. Comput. Geom.*, 9(1):430–453, 2018.
- [41] Bose, P., Lubiw, A., Pathak, V., and Verdonschot, S. Flipping edge-labelled triangulations. *Comput. Geom.*, 68:309–326, 2018.
- [42] Bose, P., and Ramos, P. Editorial: Special issue in memory of dr. ferran hurtado. *Comput. Geom.*, 68:1, 2018.
- [43] Biniáz, A., Bose, P., Carufel, J. D., Gavoille, C., Maheshwari, A., and Smid, M. H. M. Towards plane spanners of degree 3. *J. Comput. Geom.*, 8(1):11–31, 2017.
- [44] Biniáz, A., Bose, P., van Duijn, I., Maheshwari, A., and Smid, M. H. M. Faster algorithms for the minimum red-blue-purple spanning graph problem. *J. Graph Algorithms Appl.*, 21(4):527–546, 2017.
- [45] Bonichon, N., Bose, P., Carufel, J. D., Perkovic, L., and van Renssen, A. Upper and lower bounds for online routing on delaunay triangulations. *Discret. Comput. Geom.*, 58(2):482–504, 2017.
- [46] Bose, P., Carufel, J. D., Durocher, S., and Taslakian, P. Competitive online routing on delaunay triangulations. *Int. J. Comput. Geom. Appl.*, 27(4):241–254, 2017.
- [47] Bose, P., and Carufel, J. D. A general framework for searching on a line. *Theor. Comput. Sci.*, 703:1–17, 2017.
- [48] Bose, P., Carufel, J. D., Shaikhet, A., and Smid, M. H. M. Essential constraints of edge-constrained proximity graphs. *J. Graph Algorithms Appl.*, 21(4):389–415, 2017.
- [49] Bose, P., Dujmovic, V., Morin, P., and Rioux-Maldague, L. New bounds for facial nonrepetitive colouring. *Graphs Comb.*, 33(4):817–832, 2017.
- [50] Bose, P., Fagerberg, R., van Renssen, A., and Verdonschot, S. Competitive local routing with constraints. *J. Comput. Geom.*, 8(1):125–152, 2017.
- [51] Bose, P., and Verdonschot, S. Flips in edge-labelled pseudo-triangulations. *Comput. Geom.*, 60:45–54, 2017.

- [52] Ahn, H., Barba, L., Bose, P., Carufel, J. D., Korman, M., and Oh, E. A linear-time algorithm for the geodesic center of a simple polygon. *Discret. Comput. Geom.*, 56(4):836–859, 2016.
- [53] Biniiaz, A., Amani, M., Maheshwari, A., Smid, M. H. M., Bose, P., and Carufel, J. D. A plane 1.88-spanner for points in convex position. *J. Comput. Geom.*, 7(1):520–539, 2016.
- [54] Biniiaz, A., Bose, P., Maheshwari, A., and Smid, M. H. M. Plane geodesic spanning trees, hamiltonian cycles, and perfect matchings in a simple polygon. *Comput. Geom.*, 57:27–39, 2016.
- [55] Bose, P., Carufel, J. D., Morin, P., van Renssen, A., and Verdonshot, S. Towards tight bounds on theta-graphs: More is not always better. *Theor. Comput. Sci.*, 616:70–93, 2016.
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- [57] Bose, P., Douieb, K., Iacono, J., and Langerman, S. The power and limitations of static binary search trees with lazy finger. *Algorithmica*, 76(4):1264–1275, 2016.
- [58] Bose, P., Fagerberg, R., Howat, J., and Morin, P. Biased predecessor search. *Algorithmica*, 76(4):1097–1105, 2016.
- [59] Bose, P., Morin, P., and van Renssen, A. The price of order. *Int. J. Comput. Geom. Appl.*, 26(3-4):135–150, 2016.
- [60] Smid, M. H. M., Bose, P., Carmi, P., Damian, M., Carufel, J. D., Hill, D., Maheshwari, A., and Liu, Y. On the stretch factor of convex polyhedra whose vertices are (almost) on a sphere. *J. Comput. Geom.*, 7(1):444–472, 2016.
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