

Anil Maheshwari
School of Computer Science
Carleton University
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Ottawa, ON K1S 5B6, Canada
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Education

Ph.D. in Computer Science (1993)
Tata Institute of Fundamental Research
Mumbai (formerly Bombay), India.

Dual degrees in
M.Sc. (Hons.) Mathematics and
B.E. (Hons.) Electrical and Electronics Engineering (1987)
Birla Institute of Technology and Sciences, Pilani, India.

Work Experience

Professor	2006-	Carleton University
Associate Director	2016-20	Ottawa-Carleton Institute of Computer Science
Director	2013-16	Ottawa-Carleton Institute of Computer Science
Associate Professor	2001-06	Carleton University
Assistant Professor	1996-01	Carleton University
Postdoctoral Fellow	1994-96	Carleton University
Postdoctoral Fellow	1993-94	Max-Planck Institute für Informatik
Visiting Fellow	1993-96	Tata Institute of Fundamental Research
Research Scholar	1987-93	Tata Institute of Fundamental Research

Adjunct Professor at Birla Institute of Technology and Sciences, Pilani (India) since 2007.

Research Interests Design and analysis of algorithms for problems in computational geometry, graphs, data science, and discrete mathematics.

Research Grants

Source	Amount (\$)	Duration	Type
NSERC	180,000	2016-21	Discovery Grant
Carleton	20,000	2014	Carty-India Scholar Visit
DFAIT	70,000	2010-13	Commonwealth Scholarship for Students
NSERC	145,000	2011-15	Discovery Grant
MITACS	7,500	2011	MITACS Globalink Scholarship
NSERC	140,000	2006-10	Discovery Grant

NSERC	133,135	2001-05	Discovery Grant
GEOIDE	300,000	1999-01	National Centre of Excellence
NSERC	98,900	1997-00	Discovery Grant

Teaching

Course #	Title	Term/Year
COMP 1002	Systems Programming	W99, F97
COMP 1805	Discrete Structures I	W04, W99
COMP 2804	Discrete Structures II	W16
COMP 2805	Theory of Computation	F05, W05
COMP 3000	Operating Systems	F99, F98, W98
COMP 3801	Algorithms for Modern Data Sets	F16, F17, F18, F20
COMP 3804	Data Str. & Algorithms	F06-08, W09, F09, W10, F10-11, F18
COMP 4009	Parallel Algorithms	F98-00, F04-07
COMP 4109	Applied Cryptography	W11-12
COMP 4804	Advanced Algorithms	F00, W14-15, F17
COMP 5008	Computational Geometry	W99, F97, W97
COMP 5112	Algorithms for Data Science	F20
COMP 5703	Advanced Algorithms	F00, F04-11, F13-16
COMP 5704	Parallel Algorithms	W99

Supervision of Highly Qualified Personnel

	Duration	HQP	Currently @
L. Aleksandrov	1999-05	RA	Faculty@Bulgarian Academy of Sciences
<i>Postdocs:</i>			
H. Akitaya	2019-	PDF	
S. Mehrabi	2017-20	PDF	Faculty@Memorial (Canada)
A. Biniaz	2017	PDF	Faculty@Windsor (Canada)
S. Verdonschot	2015-18	PDF	Software Developer, Shopify (Canada)
J-L. De Carufel	2010-15	PDF	Faculty@U.Ottawa (Canada)
C. Wulf-Nielson	2010-11	PDF	Faculty@U.Copenhagen (Denmark)
H. Zarrabi-Zadeh	2009-11	PDF	Faculty@Sharif U. (Iran)
M. He	2007-08	PDF	Faculty@Dalhousie (Canada)
M. Farshi	2007-09	PDF	Faculty@Yazd (Iran)
P. Carmi	2006-09	PDF	Faculty@Ben-Gurion (Israel)
K. Douieb	2008-10	PDF	SEng/Statistician, Telemetry (UK)
D. Wood	2001-04	PDF	Faculty@Monash U. (Australia)

Doctoral Students:

T. Tytle	2020-	PhD	
G. Esteban	2020-	PhD	
J.S. Challa	2014-19	PhD	PDF@Northwestern
S. Eihab	2014-20	PhD	Faculty
F. Chanchary	2013-19	PhD	Lab Coordinator@Carleton
A. Biniaz	2013-16	PhD	Faculty@Windsor
A. Nouri	2013-19	PhD	UBER@San Francisco
C. Grimm	2012-17	PhD	Hi-Tech in Germany
M. Nikseresht	2007-12	PhD	Innovapost (Ottawa)
K. Shahbaz	2007-13	PhD	Afilias (Toronto)
C. Dillabaugh	2005-13	PhD	Solana Networks (Ottawa)
N. Zeh	1999-2002	PhD	CRC-Chair@Dalhousie
M. Lanthier	1996-1999	PhD	Faculty@Carleton
D. Hutchinson	1996-1999	PhD	Principal@Pteran

Masters Students:

Y. Wang	2020-	MCS	
S. Satish	2019-	MCS	
D. Robichaud	2019-	MCS	
N. Vrushali	2019-20	MCS	Ericsson (Ottawa)
G. Kaur	2019-20	MCS	
S. Misra	2019	MCS	UX Designer
K. Cerqueira	2018-19	MCS	Transferred to PhD@U. Ottawa
A. Narayanan	2015-17	MCS	Micro Focus (Ottawa)
K. Crosbie	2014-17	MCS	ADGA (Ottawa)
R. Althunyan	2015-16	MCS	Saudi Arabia
G. Bint	2013-14	MCS	JSI Telecom (Ottawa)
M. Vasanth	2012-15	MCS	Ciena (Ottawa)
M. Eastman	2011-14	MCS	Google(Seattle)
D. Robillard	2007-09	MCS	HiTech + Linux Audio (Berlin)
D. Jansens	2008-10	MCS	Google (Waterloo)
R. Taylor	2005	MCS	Math@Carleton
P. Toopana	2005	MCS	StatsCan (Ottawa)
S. Wuhler	2005-06	MCS	INRIA (Grenoble)
M. Nikseresht	2005-07	MCS	Innovapost (Ottawa)
J. Yi	2004-04	MCS	Transport Canada (Ottawa)
H. Guo	2000-02	MCS	CRA (Ottawa)
D. Saraswat	2000-02	MCS	Hi-Tech (India)
L. Farrag	1998	MCS	Hi-Tech

BCS Students:

C. Stewart	2020	Honors Thesis	
V. Chiarelli	2019- 20	Honors Thesis	M.Cog.Sci@Carleton
T. Alhajj	2019	Honors Project	SunLife Financial
E. Kaya	2018	Honors Project	Renewity, Ottawa
G. Bint	2012	NSERC-USRA	MCS@Carleton
S. Pratt	2012	NSERC-USRA	MCS@Waterloo
E. Kaya	2015	DSRI	BCS@Carleton
A. Sadr	2015	Honors Project	
J. Mendek	2013	Honors Project	MCS@Carleton
P. Raubic	2012	Honors Project	
Q. Liu	2012	Honors Project	Hi-Tech
M. Eastman	2011	Honors Project	Google
B. Azymbek	2011	Honors Project	EPAM
G. Bint	2010	NSERC-USRA	MCS@Carleton
M. Eastman	2010	NSERC-USRA	Google
S. Ahuja	2010	Honors Project	Research In Motion (Ottawa)
P. Dao	2006	Honors Project	PhD@Simon Fraser University
L. Dai	2005	Honors Project	

Exchange Students:

A. Nandy	2012-13	Commonwealth Sch. (PhD)	Faculty@NIIT Neemrana
D. Pattanayak	2013	Commonwealth Sch. (MCS)	CMI, Madras
J. Babu	2012	Commonwealth Sch. (PhD)	Faculty@IIT Kerala
S. Kumari	2012	Commonwealth Sch. (PhD)	Bosch, Bangalore
B. Roy	2012	Commonwealth Sch. (PhD)	Faculty@IIT Kharagpur
A. Banik	2012	Commonwealth Sch. (PhD)	Faculty@NISER Bhubneswar
M. De	2011	Commonwealth Sch. (PhD)	Faculty@IIT Delhi
C. Grimm	2010-11	Exchange(PhD)	Magdeburg U.(Germany)
M. Nouri	2010-11	Exchange(PhD)	Shiraz University (Iran)

Examiner of (partial list)

Year	Name	Type
2020	Md Zamilur Rahman	External Examiner on PhD (University of Windsor)
2020	Tanvir Kaykobad	External Examiner on MCS (University of Ottawa)
2020	Dibyayan Chakraborty	Examiner on PhD (Indian Statistical Institute)
2020	Anthony D'Angelo	PhD Proposal Committee (Carleton)
2019	Sampson Wong	Examiner on Masters (University of Sydney)
2017	Hamideh Vosoughpour Yazdchi	External Examiner on PhD (University of Waterloo)
2016	Bahram Kouhestani	External Examiner on PhD (Queens University)
2015	Alexis Beingessner	MCS Thesis Committee (Carleton)
2015	Darryl Hill	Internal Examiner on MCS (Carleton)

2014	Satish Chandra Panigrahi	External Examiner on PhD (University of Windsor)
2012	Luis Barba	Comprehensive Exam Committee (Carleton)
2012	Rogers Mathew	External Examiner on PhD (Indian Institute of Sciences)

Contribution to Profession

Presentations & Invited Lecture (partial list)

- (2019) Ben-Gurion University, Beersheba, Israel
- (2019) Indo-Italian Pre-Conference School on Algorithms and Combinatorics, Kharagpur
- (2019) Recent Trends in Algorithms, Bhubaneswar
- (2019) Panelist at 90th Anniversary of Maheshwari Vidya Pracharak Mandal, Pune
- (2018) Ram Krishna Mission University, Belur
- (2018) 125th Birth Anniversary Year of P.C. Mahalanobis, Indian Statistical Institute, Kolkata
- (2017) pre-CALDAM Indo-German Workshop on Geometry and Graph Algorithms, Goa
- (2016) Keynote at RLINS & SLCS, Madurai
- (2015) 27th Canadian Conference in Computational Geometry, Kingston
- (2013) pre-WALCOM School on Graph and Geometric Algorithms, Kolkata
- (2012) Birla Institute of Technology and Sciences, Pilani
- (2009) GTAANS - Seminar on Graph Theory, Algorithms and Networks, Kanchipuram
- (2009) Dr. Homi J Bhabha Birth Centenary Workshop in Graph and Geometric Algorithms, Bangalore
- (2008) TIFR-CRCE Workshop on Introduction to Geometric Algorithms, Mumbai
- (2008) Jai Hind College, Mumbai
- (2003) Canadian Conference on Computational Geometry, Lethbridge
- (2000) Symposium on Theory of Computation, Portland
- (1999) 10th ACM-SIAM Symposium on Discrete Algorithms, Baltimore
- (1999) ISAAC 99, Madras
- (1995) 7th Canadian Conference in Computational Geometry, Quebec City
- (1993) STACS 93, Wuzburg
- (1993) ALTEC-III Workshop, Hungary
- (1993) Max-Planck Institut für Informatik, Saarbrücken
- (1992) Second Scandinavian Workshop on Algorithmic Theory, Finland
- (1992) Carleton University, Ottawa
- (1992) University of Ottawa, Ottawa
- (1992) Lund University, Lund
- (1992) Humboldt University, Berlin
- (1991) Institute of Mathematical Science, Madras
- (1990) University of Saskatchewan, Saskatoon
- (1990) Purdue University, USA

(1990) Cornell University, Ithaca, USA
(1989) University of Pisa, Pisa
(1990) Second Canadian Conference in Computational Geometry, Ottawa
(1990) Indian Institute of Sciences, Bangalore, India;

Refereed for (partial list)

SIAM Journal Computing

Discrete and Computational Geometry

Journal of Computational Geometry

Computational Geometry: Theory and Applications

International Journal of Computational Geometry and Applications

Algorithmica

Information Processing Letters

IEEE Transactions

Sadhana

ACM Journal of Experimental Algorithms

GeoInformatica

Discrete Applied Mathematics

ACM Journal on Spatial Analysis

ACM Symposium on Discrete Algorithms

ALENEX

Canadian Conference on Computational Geometry

Symposium of Computational Geometry

European Symposium on Algorithms

TAPAS

Foundations of Software Techniques and Theoretical Computer Science

Workshop on Algorithms and Data Structures

Scandinavian Workshop on Algorithmic Theory

International Parallel Processing Symposium

International Symposium on Algorithms and Computation

Workshop on Algorithms and Computation

Conference on Algorithms and Discrete Applied Mathematics

Graph Drawing

Cambridge University Press

Reviewed Research Grants for

Natural Sciences and Engineering Research Council of Canada

MITACS

Research Grant Council of Hong Kong

DFG

Israel Science Foundation

Dutch Granting Council

Czech Republic Granting Council.

Editorial Activities

Special Issue of Discrete Applied Mathematics Journal (Vol. 280, 2020) for CALDAM 2017

Proceedings of Conference on Algorithms and Discrete Applied Mathematics 2017 in Lecture Notes in Computer Science published by Springer as Volume 9602.

Event Administration of

2019 Indo-Italian School on Algorithms and Combinatorics (IIT Kharagpur)

2017 Canadian Conference on Computational Geometry (Ottawa)

2017 Fields Institute Workshop on Discrete and Computational Geometry (Ottawa)

2012 Fields Institute Workshop on Discrete and Computational Geometry (Ottawa)

2010 Fields Institute Workshop on Discrete and Computational Geometry (Ottawa)

2009 Fields Institute Workshop on Discrete and Computational Geometry (Ottawa)

Joint Coordinator, Carleton Discrete Mathematics Day, Winter 1998

Joint Coordinator, Carleton Algorithmic Theory Symposium, Fall 1997-98.

PC Member of

2021 Conference on Algorithms and Discrete Applied Mathematics (IIT Ropar)

2020 Conference on Algorithms and Discrete Applied Mathematics (IIT Hyderabad)

2019 Canadian Conference in Computational Geometry (Edmonton)

2019 Conference on Algorithms and Discrete Applied Mathematics (IIT Kharagpur)

2018 Conference on Algorithms and Discrete Applied Mathematics (IIT Gauhwati)

2017 Symposium on Computational Geometry (SoCG) (Brisbane Australia)

2017 Conference on Algorithms and Discrete Applied Mathematics (BITS Goa)

2016 Conference on Algorithms and Discrete Applied Mathematics (University of Kerala)

2015 Conference on Algorithms and Discrete Applied Mathematics (IIT Kanpur)

2015 Canadian Conference in Computational Geometry (Kingston)

2013 Canadian Conference in Computational Geometry (Waterloo)

2013 Workshop on Algorithms and Computation (Kharagpur, India)

2012 Canadian Conference in Computational Geometry (PEI)

2012 International Conference on Interactive Systems (Goa, India)

2010 Canadian Conference in Computational Geometry (Winnipeg)

2010 International Conference on Frontier of Computer Science and Technology (Changchun, China)

2009 Workshop on Introduction to Graphs and Geometric Algorithms, jointly organized by BITS (Pilani, India) and TIFR (Mumbai, India) on the Birth Centenary of Dr. Homi J. Bhabha

2009 Workshop on Algorithms and Computation (Calcutta, India)

2008 International Conference on Emerging Technologies and Applications in Engineering, Technology and Sciences, (Rajkot, India)

2007 Canadian Conference in Computational Geometry (Ottawa)

2005 Canadian Conference in Computational Geometry (Windsor)

2005 ALENEX (Vancouver)

1999 Workshop on Algorithms and Data Structures (Ottawa)
1996 Canadian Conference in Computational Geometry (Ottawa).

Facilitator for the session on “Joint Research” for the first-ever Canada-India Education Summit of Vice-Chancellors and University Presidents (June 2011),

Collaborated with over 135 researchers including H. Akitaya (Tufts, USA), L. Aleksandrov (Bulgarian Academy of Sciences, Bulgaria), S. Arikati (Max-Planck Institut für Informatik), R. Atanassov (Carleton, Canada), J. Augustine (IIT Madras, India), S. Banerjee (ISI, Kolkata), J. Babu (IIT Palakkad, India), A. Banik (NISER, India), J. Bhadury (New Brunswick, Canada), B. Bhattacharya (ISI, Kolkata), B. Bhattacharya (SFU, Canada), F. Bauernöppel (Humboldt, Germany), A. Biniiaz (Windsor, Canada), T. Biedl (Waterloo, Canada), G. Bint (JSI Telecom, Canada), P. Bose (Carleton, Canada), S. Cabello (Slovenia), P. Carmi (Ben-Gurion, Israel), T. Chandrasekaran (Univ. of Texas, USA), S. Collette (Brussels, Belgium), M. Couture (Carleton, Canada), V. Chandru (IISc, India), J. Czyzowicz (Univ. Quebec at Hull), M. Damian (USA), S. Das (ISI, India), A. Datta (Univ. Western Australia), M. De (IIT Delhi, India), F. Dehne (Carleton, Canada), A. Dessmark (Lund, Sweden), W. Dittrich (Bosch Telecom, Germany), H. Djidjev (Los Alamos Labs, USA), K. Douieb (Carleton, Canada), M. Eastman (Google, USA), David Eppstein (UCI, USA), M. Farshi (Iran), R. Flatland (USA), A. Gheibi (Carleton, Canada), M. Ghodsi (Sharif, Iran), S.K. Ghosh (TIFR, India), S. Govindrajan (Duke, USA), P. Goswami (Univ. Calcutta, India), N. Goyal (BITS Pilani, India), P. Goyal (BITS Pilani, India), C. Grimm (Magdeburg, Germany), H. Guo (Carleton, Canada), D. Hutchinson (Pteran, Canada), A. Karim Abu-Affash (Ben-Gurion, Israel), A. Karmarkar (ISI, Kolkata), M. Katz (Ben-Gurion, Israel), J.M. Keil (Saskatoon, Canada), E. Kranakis (Carleton, Canada), M. van Kreveld (Utrecht, Holland), D. Krizanc (Wesleyan, USA), S. Kumari (BITS Pilani, India), L. Kuttner (Carleton, Canada), S. Langerman (Brussels), M. Lanthier (Carleton, Canada), S. Lazard (INRIA, France), A. Lingas (Lund, Sweden), A. Lubiw (Waterloo, Canada), T. Lukovski (Univ. Paderborn, Germany), C.E. Veni Madhavan (IISc, India), S. Mehrabi (Memorial), N. Misra (IIT Gandhinagar), P. Morin (Carleton, Canada), J. Morrison (U. Winnipeg, Canada), W. Mulzer (Berlin), I. Munro (Waterloo, Canada), G. Narasimhan (Miami, USA), S. Nandy (ISI Calcutta, India), M. Noy (Barcelona, Spain), A. Nouri (UBER, USA), M. Nouri (Sharif, Iran), D. Nussbaum (Carleton, Canada), S.P. Pal (IIT Kharagpur, India), M. Paquette (Carleton, Canada), V.T. Rajan (IBM, USA), S. Roy (TRDCC, India), D. Roytenberg (Carleton, Canada), J.-R. Sack (Carleton, Canada), S. Smorodinsky (Ben-Gurion, Israel) Swami Sarvattomananda (Vivekanand University, India), S. Saluja (TIFR, India), C. Scheffer (Dortmund, Germany), A. Somayaji (Carleton, Canada), C. Shu (NRC, Canada), M. Smid (Carleton, Canada), S. Suri (UCSB, USA), Y. Tang (Carleton, Canada), R. Taylor (Carleton, Canada), J. Urrutia (UNAM, Mexico), J. Vahrenhold (Dortmund, Germany), J. Yi (Carleton, Canada) C. Zaroliagis (Patras, Greece), N. Zeh (Dalhousie, Canada).

Administrative duties at Carleton

Member of the Senate Executive Committee, 2018-19.

Member of Carleton's Senate from the School of Computer Science, 2016 -19.

Science Representative of Senate Academic Program Committee (SAPC), 2010-19.

Graduate Director of the School of Computer Science, since 2013-20.

Member of the Canada-India Center for Excellence in Science, Technology, Trade and Policy at Carleton, since 2010.

Member of the Universities Graduate Programs and Planning Committee, 2003-09.

Member of the University Scholarship Committee, 2010 -12.

Member of OGS Scholarship Committee for the Province of Ontario, 2008-9.

Carleton representative for the C3.ca initiative, 1998.

CFI/ORDCF Application for the Eastern Ontario Initiative for High-Performance Infrastructure. This led to the creation of the HPCVL infrastructure.

Co-Principal Investigator for the Parallel and Distributed Geomatics Network within the GEOIDE NCE Network.

School committees including Curriculum Reinvention, OCICS Board of Management, Hiring for CRC Tier Chair II, Promotion and Tenure, Algorithms ORU, Laboratories, Representative of the Library Committee, and Graduate Students Seminar.

Volunteer Positions

2012-14 Secretary of Mahatma Gandhi Peace Council of Ottawa.

2011 Assistant Coach of Nepean Pirates 4-on-4 Summer Hockey.

2007 Assistant Coach of OSU Boys Soccer U9 Team.

List of Publications

Currently Under Review

1. A. Biniáz, A. Maheshwari and M. Smid, Euclidean maximum matchings in the plane—local to global, submitted November 2020.
2. P. Bose, P. Carmi, M. J. Keil, A. Maheshwari, S. Mehrabi, D. Mondal and M. Smid, Computing Maximum Independent Set on Outerstring Graphs and Their Relatives, submitted May 2019 (preliminary version in WADS 2019).
3. K. Abu-Affash, P. Carmi, A. Maheshwari, P. Morin, Michiel Smid and Shakhar Smorodinsky, Approximating Maximum Diameter-Bounded Subgraph in Unit Disk Graphs, submitted December 2019 (preliminary version in SoCG 2018).
4. A. Acharyya, A. Maheshwari and S. C. Nandy, Color Spanning Localized Query, submitted May 2019. (preliminary version in 5th CALDAM 2019, LNCS 11394: 150–160, 2019)
5. S. Jana, A. Maheshwari and S. Roy, Linear Size Planar Manhattan Network for Convex Point Sets, submitted August 2019.
6. A. Biniáz, S. Cabello, P. Carmi, J.-L. De Carufel, A. Maheshwari, S. Mehrabi and M. Smid, On the Minimum Consistent Subset Problem, submitted in November 2019 (preliminary version in WADS 2019).
7. F. Chanchary, A. Maheshwari, and M. Smid, Window Queries for Intersecting Objects, Maximal Points and Approximations using Coresets, submitted August 2018 for the special issue of CALDAM 2018.
8. F. Dehne, A. Maheshwari and R. Taylor, An improved algorithm for Hausdorff Voronoi Diagram for non-crossing sets, submitted in May 2006 (preliminary version appeared in ICPP 2006).

In Journals

1. A. Maheshwari, W. Mulzer and M. Smid, A Simple Randomized $O(n \log n)$ -Time Closest-Pair Algorithm in Doubling Metrics, to appear in Journal of Computational Geometry.
2. A. Maheshwari, A. Nouri, and J.-R. Sack, Shortest Paths Among Transient Obstacles, accepted for publication in Journal of Combinatorial Optimization (special issue of 12th COCOA, LNCS 11346: 19–34, 2018).
3. A. Biniáz, P. Bose, P. Carmi, A. Maheshwari, I. Munro and M. Smid, Faster Algorithms for some Optimization Problems on Collinear Points, Journal of Computational Geometry 11(1): 418-432, 2020 (Preliminary version in SoCG 2018).
4. S. Govindarajan and A. Maheshwari (Editors), Preface: CALDAM 2016, Discrete Applied Mathematics 280, 2020.

5. A. Biniiaz, E. Kranakis, A. Maheshwari, and M. Smid, Plane and Planarity Thresholds for Random Geometric Graphs, *Discrete Mathematics Algorithms and Applications* 12(1), 2020 (preliminary version in *ALGOSENSORS* 2015).
6. J.-L. De Carufel, C. Grimm, A. Maheshwari, S. Schirra, and M. Smid, Minimizing the Continuous Diameter when Augmenting a Geometric Tree with a Shortcut, *Computational Geometry: Theory and Applications* 89, 2020 (special issue of *WADS* 2017).
7. P. Carmi, F. Chanchary, A. Maheshwari and M. Smid, The Most Likely Object to be Seen Through a Window, *International Journal of Computational Geometry and Applications* 29: 269-287, 2019.
8. F. Chanchary, A. Maheshwari, and M. Smid, Querying Relational Event Graphs using Colored Range Searching Data Structures, *Discrete Applied Mathematics* 286:51-61, 2020 (special issues of *CALDAM* 2017).
9. P. Carmi, A. Maheshwari, S. Mehrabi, L. F. S. X. da Silveira, Approximability of Covering Cells with Line Segments, *Theoretical Computer Science* 784:133-141, 2019 (preliminary version in *COCOA* 2018).
10. S. Bandyapadhyay, A. Maheshwari, S. Mehrabi, and S. Suri, Approximating Dominating Set on Intersection Graphs of rectangles and L-frames, *Computational Geometry: Theory and Applications* 82: 32-44, 2019 (preliminary version in 43rd *MFCs*, *LIPIcs* 117: 37:1–37:15, 2018).
11. A. Biniiaz, A. Maheshwari, and M. Smid, Bottleneck Matchings and Hamiltonian Cycles in Higher-Order Gabriel Graphs, *Information Processing Letters* 153, 2020.
12. A. Banik, S. Das, A. Maheshwari and M. Smid, The Discrete Voronoi Game in a Simple Polygon, to appear in *Theoretical Computer Science* (preliminary version in *COCOON* 2013).
13. A. Gheibi, A. Maheshwari and J.-R. Sack, Weighted Minimum Backward Frechet Distance, *Theoretical Computer Science* 783: 9-21, 2019 (preliminary version in *CCCG* 2015).
14. T. Biedl, A. Biniiaz, A. Maheshwari, and S. Mehrabi, Packing Boundary-Anchored Rectangles, *Computational Geometry: Theory and Applications* 88, 2020 (special issue of *CCCG* 2017)
15. S. Sadhu, S. Roy, S. Nandi, A. Maheshwari, and S. C. Nandy, Approximation algorithms for the two-center problem of convex polygon, *Fundamenta Informaticae* 164 (1) 119–138, 2019.
16. G. Bint, A. Maheshwari, S.C. Nandy, and M. Smid, Partial enclosure range searching, *International Journal of Computational Geometry and Applications* 29(1): 73-93, 2019.
17. F. Chanchary and A. Maheshwari, Time Windowed Data Structures for Graphs, *Journal of Graph Algorithms and Applications* 23(2): 191-226, 2019.

18. A. Biniiaz, A. Maheshwari, M. Smid, Flip Distance to some Plane Configurations, *Computational Geometry: Theory and Applications* 81:12-21, 2019 (preliminary version in SWAT 2018).
19. A. Biniiaz, P. Bose, K. Crosbie, J.-L. De Carufel, D. Eppstein, A. Maheshwari, and M. Smid, Maximum plane trees in multipartite geometric graphs, *Algorithmica* 81(4): 1512-34, 2019 (preliminary version in WADS 2017).
20. A. Biniiaz, P. Bose, D. Eppstein, A. Maheshwari, P. Morin, and M. Smid, Spanning trees in multipartite geometric graphs, *Algorithmica* 80(11): 3177-3191, 2018.
21. A. Gheibi, A. Maheshwari, J.-R. Sack and C. Scheffer, Path refinement in weighted regions, *Algorithmica* 80(12): 3766-3802 , 2018
22. A. Maheshwari, J.-R. Sack, and C. Scheffer, Approximating the integral Frechet distance, *Computational Geometry: Theory and Applications* 70-71: 13-30, 2018 (preliminary version in SWAT 2016).
23. A. Biniiaz, A. Maheshwari, and M. Smid, Strong matching of points with geometric shapes, *Computational Geometry: Theory and Applications* 68: 186-205, 2018. Special issue in the memory of Ferran Hurtado.
24. A. Maheshwari, S.C. Nandy, D. Pattanayak, S. Roy, M. Smid, Geometric Path Problems with Violations. *Algorithmica* 80(2): 448–471, 2018.
25. A. Biniiaz, P. Bose, J.-L. De Carufel, C. Gavoille, A. Maheshwari, G. Rote, and M. Smid, Towards plane spanners of degree 3, *Journal of Computational Geometry*, 8(1): 11—31, 2017. (preliminary version in ISAAC 2016: 19:1-19:14, December 2016.)
26. A. Biniiaz, A. Maheshwari, S.C. Nandy and M. Smid, An optimal algorithm for plane matchings in multipartite geometric graphs, *Computational Geometry: Theory and Applications*, 63: 1—9, 2017.
27. A. Biniiaz, P. Bose, A. Maheshwari, and M. Smid, Plane Bichromatic Trees of Low Degree, *Discrete & Computational Geometry* 59(4): 864-885, 2018.
28. A. Biniiaz, P. Bose, I. van Duijn, A. Maheshwari, and M. Smid, Faster Algorithms for the Minimum Red-Blue-Purple Spanning Graph Problem, *Journal of Graph Algorithms and Applications* 21(4): 527–546, 2017.
29. C. Dillabaugh, M. He, A. Maheshwari and N. Zeh, I/O-Efficient path traversal in succinct planar graphs, *Algorithmica* 77(3): 714–755, 2017.
30. M. Amani, A. Biniiaz, P. Bose, J.-L. De Carufel , A. Maheshwari, and M. Smid, A Plane 1.88-Spanner for Points in Convex Position, *Journal of Computational Geometry*, 7(1): 520–539, 2016. (Preliminary version in SWAT 2016.)
31. P. Bose, P. Carmi, M. Damian, J.-L. De Carufel, D. Hill, A. Maheshwari, Y. Liu, M. Smid, On the Stretch Factor of Convex Polyhedra whose Vertices are (Almost) on a Sphere, *Journal of Computational Geometry* 7(1): 444-472, 2016.

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