

Anil Maheshwari
School of Computer Science
Carleton University
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Ottawa, ON K1S 5B6, Canada
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Web: <http://www.scs.carleton.ca/~anil>

Education

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

Dual degrees in
M.Sc. Mathematics and
B.E. 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

- Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar, since March 2023.
- Indian Statistical Institute, Kolkata, India, since August 2021.
- Department of Computer Science of Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, India, since February 2021.

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

Research Grants

Source	Amount (\$)	Duration	Type
Carleton	7,000	2022	Course Transformation Fund
NSERC	275,000	2021-26	Discovery Grant
Carleton	5,000	2021-22	HyFlex Development Initiative
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
Total	1,381,535		

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	F98-99, W98
COMP 3801	Algorithms for Modern Data Sets	F16-18, F20, F22, F23
COMP 3804	Data Structures and Algorithms	F06-08, W09, F09, W10, F10, F11, F18, F21, F22
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, W22, W23, F23
COMP 5703	Advanced Algorithms	F00, F04-11, F13-16
COMP 5704	Parallel Algorithms	W99

Supervision of Highly Qualified Personnel

	Duration		Currently @
L. Aleksandrov	1999-05	RA	Faculty@Bulgarian Academy of Sciences
<i>Postdocs:</i>			
B. Miraftab	2023-	PDF	
H. Akitaya	2019-20	PDF	Faculty@U. Mass Lowell (USA)
S. Mehrabi	2017-20	PDF	Faculty@U.Mass Lowell (USA)
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)
<i>Doctoral Students:</i>			
K. Murali	2022-	PhD	
A. Madani	2021-	PhD	
A. Arevalo	2021-	PhD	
T. Tytle	2020-	PhD	
G. Esteban	2020-	PhD	
J.S. Challa	2014-19	PhD	PDF@Northwestern, Faculty@BITS
S. Eihab	2014-20	PhD	Faculty@Saudi Arabia
F. Chanchary	2013-19	PhD	Lab Coordinator/Instructor@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	Amazon
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
<i>Masters Students:</i>			
S. Patel	2022-23	MCS	Citi
M. Vicuna	2021-	MCS	Wolfram Research
Y. Wang	2020-21	MCS	Amazon
A. DhakshinaMuthy	2019-21	MCS	HiTech
D. Robichaud	2019-	MCS	Google

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
D. Robillard	2007-09	MCS	HiTech + Linux Audio (Berlin)
D. Jansens	2008-10	MCS	Google
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:

Y. Sabry	2023	Honors Project	Amazon
L. Sharafeldin	2022	DSRI	BCS@Carleton
Mingyi Wu	2022	Honors Project	MCS@SFU
C. Stewart	2020-21	Honors Thesis	PhD@Waterloo
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
2023	K. Murali	Comprehensive Exam (Carleton)
2023	Tyler Tuttle	Ph.D. Thesis Proposal (Carleton)
2023	Saman Bazargani	PhD Thesis Examiner (U. Ottawa)
2023	Gopika Sharma	PhD Thesis Examiner (IIT Ropar)
2023	Mehrnoosh Javarsineh	Thesis Proposal (Carleton)
2023	Camille La Rose	External MCS Thesis Examiner (U. Ottawa)
2023	Zoltan Kalnay	Internal Examiner of MCS Thesis (Carleton)
2022	Milutin Brankovic	PhD Thesis Examiner (U. Sydney)
2021	Parth Shah	MSc Thesis Committee (Sprott Business School, Carleton)
2021	Francois-Xavier Corriveau	MCS Thesis Committee (Carleton)
2020	Md Zamilur Rahman	External Examiner on PhD (U. Windsor)
2020	Tanvir Kaykobad	External Examiner on MCS (U. Ottawa)
2020	Dibyayan Chakraborty	Examiner on PhD (Indian Stat. Institute)
2020	Anthony D'Angelo	PhD Proposal Committee (Carleton)
2019	Sampson Wong	Examiner on Masters (U. Sydney)
2017	Hamideh Vosoughpour Yazdchi	External Examiner on PhD (U. 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 (U. Windsor)
2012	Luis Barba	Comprehensive Exam Committee (Carleton)
2012	Rogers Mathew	External Examiner on PhD (Indian Inst. Sciences)

Contribution to Profession

- Presentations & Invited Lecture (partial list)
 - (2023) Invited Talk, RKMVERI, India
 - (2023) Invited Talk, Research Day at CS Department, BITS Pilani, India
 - (2021) Invited Talk, 4th Iranian Conference on Computational Geometry, Yazd University, Iran
 - (2021) Google Invited Talk, 7th Conference on Algorithms and Discrete Applied Mathematics, IIT Ropar, India
 - (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;

- Teaching on Volunteer Basis
(2022) Graduate course on Algorithms for Data Science at RKMVERI, India
(2021) Online Graduate course on Algorithms for Data Science at RKMVERI, India
- Refereed research articles 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-SIAM Symposium on Discrete Algorithms
ALENEX
Canadian Conference on Computational Geometry
Symposium of Computational Geometry
European Symposium on Algorithms
TAPAS
Mathematical Foundations of Computer Science
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
 - 2024 Canadian Conference in Computational Geometry (Brock University)
 - 2024 Scandinavian Symposium and Workshops on Algorithm Theory (Helsinki)
 - 2024 Conference on Algorithms and Discrete Applied Mathematics (Co-Chair) (IIT Bhi-lai)
 - 2023 Canadian Conference in Computational Geometry (Montreal)
 - 2023 Conference on Algorithms and Discrete Applied Mathematics (DAICT University)
 - 2022 International Symposium on Algorithms and Applications (South Korea)
 - 2022 Canadian Conference in Computational Geometry (Toronto)
 - 2022 Scandinavian Symposium and Workshop on Algorithmic Theory (Faroe Islands)
 - 2022 Conference on Algorithms and Discrete Applied Mathematics (Pondicherry Uni-versity)
 - 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 Ker-ala)
 - 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), S. Bandyopadhyay (USA), 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. Biniat (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), A. Das (ISI, India), 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 Epstein (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), K. Varadarajan (Iowa, USA), J. Vahrenhold (Dortmund, Germany), J. Yi (Carleton, Canada) C. Zaroliagis (Patras,

Greece), N. Zeh (Dalhousie, Canada).

Administrative duties at Carleton

Graduate Director of the Data Science, Analytics, and Artificial Intelligence Program, 2023-
Member of the Senate Quality Assurance and Planning Committee, 2021-22.
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.
Associate Director of Ottawa-Carleton Institute of Computer Science, 2016-20.
Director of Ottawa-Carleton Institute of Computer Science, 2013-16.
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 Infras-
tructure. 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, Repre-
sentative of the Library Committee, and Graduate Students Seminar.

Volunteer Positions

2021-22 Senior Mentor, Coding Innovation Lab, BITS-Pilani.
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. Biniiaz, J.-L De Carufel, A. Maheshwari, and M. Smid, Metric and Geometric Spanners that are Resilient to Degree-Bounded Edge Faults, submitted December 2023.
2. A. Biniiaz, P. Bose, J.-L De Carufel, A. Maheshwari, B. Miraftab, S. Odak, M. Smid, S. Smorodinsky and Y. Yuditsky, On Separating Path and Tree Systems in Graphs, submitted January 2024.
3. M. De, A. Maheshwari and R. Mandal, Online class cover problem, submitted August 2023.
4. A. Madani and A. Maheshwari, Distance-Preserving Graph Compression Techniques, submitted July 2023.
5. P. Bose, G. Esteban and A. Maheshwari, Weighted shortest path in equilateral triangular meshes, submitted July 2023, revised (with minor revision) in December 2023.
6. S. Bandyapadhyay, A. Maheshwari and M. Smid, Exact and Approximation Algorithms for Many-To-Many Point Matching in the Plane, submitted July 2022. (preliminary version in ISAAC 2021.)
7. S. Dey, A. Maheshwari, and S. C. Nandy, Minimum Consistent Subset of Trees, submitted June 2022. (Preliminary version in FCT, 2021.)
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. S. Jana, A. Maheshwari, S. Mehrabi, and S. Roy, Maximum Bipartite Subgraphs of Geometric Intersection Graphs, International Journal of Computational Geometry and Applications, accepted November 2023.
2. J.-L De Carufel, D. Hill, A. Maheshwari, S. Roy, and L.F.S.X. da Silveira, Constant delay lattice train schedules, Discrete Applied Mathematics 339: 1-10, 2023.
3. S. Dey, A. Maheshwari, and S. C. Nandy, Minimum Consistent Subset of Simple Graph Classes, submitted July 2021. (Preliminary version in 7th CALDAM, LNCS 12601: 471–484, 2021.), Discrete Applied Mathematics 338: 255-277, 2023.
4. V. Tripathi, A. Pandey and A. Maheshwari, A linear-time algorithm for semitotal domination in strongly chordal graphs, accepted for publications in Discrete Applied Mathematics 338: 77-88, 2023.
5. H. Akitaya, A. Biniiaz, P. Bose, J.-L. De Carufel, A. Maheshwari, L.F.S.X Da Silveira and M. Smid, The Minimum Moving Spanning Tree Problem, Journal of Graph Algorithms and Applications 27(1): 1-18, 2023 (preliminary version in 17th WADS 2021).
6. R. Seth, A. Maheshwari, and S.C. Nandy, An Acrophobic Guard Watchtower Problem on Terrains, Computational Geometry: Theory and Applications 109: 101918, 2023 (preliminary version in CCCG 2021).

7. A. Biniáz, A. Maheshwari and M. Smid, Approximating bottleneck spanning trees on partitioned tuples of points, *Computing in Geometry and Topology*, 1(1): 3.1-3.18, 2022.
8. F. Bauernöppel, A. Maheshwari and J.-R. Sack, An $\Omega(n^d)$ Lower Bound on the Number of Cell Crossings for Weighted Shortest Paths in d-dimensional Polyhedral Structures, *Computational Geometry: Theory and Applications* 107: 101897, 2022 (preliminary version in LATIN 2020, LNCS 12118:235-246).
9. 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, *Computational Geometry: Theory and Applications* 103: 101852, 2022 (preliminary version in WADS 2019).
10. A. Biniáz, P. Bose, A. Lubiw, and A. Maheshwari, Bounded-Angle Minimum Spanning Trees, *Algorithmica* 84(1): 150-175, 2022 (preliminary version in SWAT 2020).
11. K. Abu-Affash, P. Carmi, A. Maheshwari, P. Morin, Michiel Smid and Shakhar Smorodinsky,, Approximating Maximum Diameter-Bounded Subgraph in Unit Disk Graphs, *Discrete and Computational Geometry* 66(4): 1401-1414, 2021, (preliminary version in SoCG 2018).
12. S. Jana, A. Maheshwari and S. Roy, Linear Size Planar Manhattan Network for Convex Point Sets, *Computational Geometry: Theory and Applications* 100:101819, 2022.
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