

RESEARCH INTERESTS

- Graph Theory and Algorithms
- Parameterized Graph Algorithms
- Kernelization
- Computational Geometry
- Exact Exponential Time Algorithms

CURRENT POSITION

Indian Institute of Science Education and Research (IISER) Berhampur
Berhampur, Odisha, India
– Department of Computer Science

Assistant Professor
May 2026 –Ongoing

EXPERIENCE

Indian Statistical Institute
Kolkata, India
– Advanced Computing and Microelectronics Unit
– Host: **Prof. Sasanka Roy**

Visiting Scientist
Jan 2026 –May 2026

University of Warwick
Coventry, United Kingdom
– Department of Computer Science
– Host: **Dr. Maadapuzhi Sridharan Ramanujan**

Postdoctoral Fellow
Apr 2024 –Dec 2025

The Institute of Mathematical Sciences
Chennai, India
– Theoretical Computer Science Group
– Host: **Prof. Saket Saurabh**

Postdoctoral Fellow
July 2021 –Mar 2024

Indian Statistical Institute
Chennai, India
– Project Title: “Structural and Algorithmic Study of some Geometric Intersection Graphs Classes”
– Supervisor: **Dr. Mathew C. Francis**

Project Associate
Aug 2015 –June 2016

Indian Statistical Institute

Ph.D. in Computer Science

Kolkata, India

Aug 2016–July 2021

- Advanced Computing and Microelectronics Unit
- Thesis: “Computing Well-Structured Subgraph in Geometric Intersection Graphs”
- Advisor: **Prof. Sasanka Roy**

Indian Institute of Technology

M.Sc. in Mathematics

Bhubaneswar, India

2013–2015

- Master Thesis: “Julia Set of Newton Method for Double Root”
- Supervisor: **Prof. Tarakanata Nayak**

Scottish Church College, University of Calcutta

B.Sc. in Mathematics

Kolkata, India

2010–2013

JOURNAL PUBLICATIONS

- [1] Ankit Abhinav, **S. Jana**, Nidhi Purohit, Abhishek Sahu, and Saket Saurabh. “Parameterized Complexity of Feedback Vertex Set with Connectivity Constraints”. *Journal of Computer and System Sciences* 161: 103816 (2026). [DOI: [10.1016/J.JCSS.2026.103816](https://doi.org/10.1016/J.JCSS.2026.103816)].
 - A preliminary version accepted at *SOFSEM 2025*.
- [2] **S. Jana**, Lawqueen Kanesh, Madhumita Kundu, and Saket Saurabh. “Subset Feedback Vertex Set in Tournaments as Fast as Without the Subset”. *Journal of Computer and System Sciences* 161: 103818 (2026). [DOI: [10.1016/J.JCSS.2026.103818](https://doi.org/10.1016/J.JCSS.2026.103818)].
 - A preliminary version accepted at *IPEC 2024*.
- [3] **S. Jana**, Daniel Lokshtanov, Soumen Mandal, Ashutosh Rai, and Saket Saurabh. “Parameterized Approximation Scheme for Feedback Vertex Set” *Theoretical Computer Science* 1081: 116060 (2026). [DOI: [10.1016/J.TCS.2026.116060](https://doi.org/10.1016/J.TCS.2026.116060)].
 - A preliminary version accepted at *MFCS 2023*.
- [4] Václav Blažej, **S. Jana**, and Peter Strulo. “A Parameterized Perspective of All-Colors” *Theoretical Computer Science* 1059: 115573 (2026). [DOI: [10.1016/J.TCS.2025.115573](https://doi.org/10.1016/J.TCS.2025.115573)].
 - A preliminary version accepted at *CIAC 2025*.
- [5] Václav Blažej, **S. Jana**, M. S. Ramanujan, and Peter Strulo. “On the Parameterized Complexity of Eulerian Strong Component Deletion”. *Algorithmica* 87: 1669-1709 (2025). [DOI: [10.1007/s00453-025-01336-6](https://doi.org/10.1007/s00453-025-01336-6)].
 - A preliminary version accepted at *IPEC 2024*.
- [6] Karthika D, Muthucumaraswamy R, Sriram Bhyravarapu, **S. Jana**, and Saket Saurabh. “Further parameterized results on weak Grundy coloring.” *Theoretical Computer Science* 1049: 115361 (2025). [DOI: [10.1016/j.tcs.2025.115361](https://doi.org/10.1016/j.tcs.2025.115361)].
- [7] Ankit Abhinav, **S. Jana**, and Abhishek Sahu. “Towards Transitive-free Digraphs.” *Theoretical Computer Science* 983: 115270 (2025). [DOI: [10.1016/j.tcs.2025.115270](https://doi.org/10.1016/j.tcs.2025.115270)].
- [8] **S. Jana**, Souvik Saha, Abhishek Sahu, Saket Saurabh, and Shaily Verma. “Partitioning Subclasses of Chordal Graphs with Few Deletions.” *Theoretical Computer Science* 983: 114288 (2024). [DOI: [10.1016/j.tcs.2023.114288](https://doi.org/10.1016/j.tcs.2023.114288)].
 - A preliminary version accepted at *CIAC 2023*.
- [9] **S. Jana**, Anil Maheshwari, Saeed Mehrabi, and Sasanka Roy. “Maximum bipartite subgraph of geometric intersection graphs.” *International Journal of Computational Geometry and Applications* 33(3&4): 133-157 (2023). [DOI: [10.1142/S021819592350005X](https://doi.org/10.1142/S021819592350005X)].
 - A preliminary version accepted at *WALCOM 2020*.

- [10] Akanksha Agrawal, Sutanay Bhattacharjee, **S. Jana**, and Abhishek Sahu. “Parameterized Complexity of Perfectly Matched Sets.” *Theoretical Computer Science* 958: 113861 (2023). [DOI: [10.1016/j.tcs.2023.113861](https://doi.org/10.1016/j.tcs.2023.113861)].
• A preliminary version accepted at *IPEC 2022*.
- [11] **S. Jana**, Anil Maheshwari, and Sasanka Roy. “Linear-size planar Manhattan network for convex point sets.” *Computational Geometry* 100: 101819 (2022). [DOI: [10.1016/j.comgeo.2021.101819](https://doi.org/10.1016/j.comgeo.2021.101819)].
- [12] Jammigumpula Ajay, **S. Jana**, and Sasanka Roy. “Collision-free routing problem with restricted L-path.” *Discrete Applied Mathematics* 319: 71-80 (2022). [DOI: [10.1016/j.dam.2021.04.013](https://doi.org/10.1016/j.dam.2021.04.013)].
- [13] Sujoy Bhore, Sourav Chakraborty, **S. Jana**, Joseph SB Mitchell, Supantha Pandit, and Sasanka Roy. “The balanced connected subgraph problem.” *Discrete Applied Mathematics* 319: 111-120 (2022). [DOI: [10.1016/j.dam.2020.12.030](https://doi.org/10.1016/j.dam.2020.12.030)].
• A preliminary version accepted at *CALDAM 2019*.
- [14] Sujoy Bhore, **S. Jana**, Supantha Pandit, and Sasanka Roy. “The balanced connected subgraph problem for geometric intersection graphs.” *Theoretical Computer Science* 929: 69-80 (2022). [DOI: [10.1016/j.tcs.2022.06.030](https://doi.org/10.1016/j.tcs.2022.06.030)].
• A preliminary version accepted at *COCOA 2019*.
- [15] **S. Jana**, and Supantha Pandit. “Covering and packing of rectilinear subdivision.” *Theoretical Computer Science* 840: 166-176 (2020). [DOI: [10.1016/j.tcs.2020.07.038](https://doi.org/10.1016/j.tcs.2020.07.038)].
• A preliminary version accepted at *WALCOM 2019*.
- [16] Mathew C. Francis, Dalu Jacob, and **S. Jana**. “Uniquely restricted matchings in interval graphs.” *SIAM Journal on Discrete Mathematics* 32(1): 148-172 (2018). [DOI: [10.1137/16M1074631](https://doi.org/10.1137/16M1074631)].

CONFERENCE PUBLICATIONS

- [1] Tanmay Inamdar, **S. Jana**, Madhumita Kundu, Daniel Lokshtanov, Saket Saurabh, and Meirav Zehavi. “FPT Approximations for Connected Maximum Coverage”. In *17th Innovations in Theoretical Computer Science Conference, (ITCS 2026)*, Bocconi University, Milan, Italy, January 27-30, 2026, LIPIcs, vol. 362, pp. 80:1–80:24, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2026. [DOI: [10.4230/LIPICS.ITCS.2026.80](https://doi.org/10.4230/LIPICS.ITCS.2026.80)]
- [2] **S. Jana**, Soumen Mandal, Ashutosh Rai, and Saket Saurabh. “Improved Approximation for Pathwidth One Vertex Deletion and Parameterized Complexity of its Variants”. In *45th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, (FSTTCS 2025)*, BITS Pilani, Birla Goa Campus, India, December 17-19, 2025, LIPIcs, vol. 360, pp. 39:1–39:20, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2025. [DOI: [10.4230/LIPICS.FSTTCS.2025.39](https://doi.org/10.4230/LIPICS.FSTTCS.2025.39)]
- [3] **S. Jana**, Souvik Saha, Saket Saurabh, and Anannya Upasana. “Parameterized Reunion with Achromatic Number”. In *36th International Symposium on Algorithms and Computation, (ISAAC 2025)*, Tainan, Taiwan, December 7-10, 2025, LIPIcs, vol. 359, pp. 42:1–42:20, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2025. [DOI: [10.4230/LIPICS.ISAAC.2025.42](https://doi.org/10.4230/LIPICS.ISAAC.2025.42)]
- [4] Václav Blažej, **S. Jana**, M. S. Ramanujan, and Peter Strulo. “Bridging Treewidth and Clique-width via Cograph-Modular-Treewidth”. In *20th International Symposium on Parameterized and Exact Computation, (IPEC 2025)*, Warsaw, Poland, September 15-19, 2025, LIPIcs, vol. 358, pp. 18:1–18:18, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2026. [DOI: [10.4230/LIPICS.IPEC.2025.18](https://doi.org/10.4230/LIPICS.IPEC.2025.18)]
- [5] Václav Blažej, **S. Jana**, and Peter Strulo. “A Parameterized Perspective of All-Colors”. In *14th International Conference on Algorithms and Complexity (CIAC 2025)*, Rome, Italy, June 10-12, 2025, LNCS, vol. 15679, pp. 222–239, Springer, 2025. [DOI: [10.1007/978-3-031-92932-8_15](https://doi.org/10.1007/978-3-031-92932-8_15)]
- [6] Aritra Banik, Fedor Fomin, Petr Golovach, Tanmay Inamdar, **S. Jana**, and Saket Saurabh. “Multivariate Exploration of Metric Dilation”. In *42nd International Symposium on Theoretical Aspects of Computer Science (STACS 2025)*, Jena, Germany, March 4-7, 2025, LIPIcs, vol. 327, pp. 14:1–14:17, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2025. [DOI: [10.4230/LIPICS.STACS.2025.14](https://doi.org/10.4230/LIPICS.STACS.2025.14)]

- [7] Ankit Abhinav, **S. Jana**, Nidhi Purohit, Abhishek Sahu, and Saket Saurabh. “Parameterized Complexity of Feedback Vertex Set with Connectivity Constraints”. In *50th International Conference on Current Trends in Theory and Practice of Computer Science, (SOFSEM 2025)*, Bratislava, Slovakia, January 20-23, 2025, LNCS, vol. 15538, pp. 23–36, Springer, 2025. [DOI: [10.1007/978-3-031-82670-2_3](https://doi.org/10.1007/978-3-031-82670-2_3)]
- [8] **S. Jana**, Lawqueen Kanesh, Madhumita Kundu, and Saket Saurabh. “Subset Feedback Vertex Set in Tournaments as Fast as Without the Subset”. In *19th International Symposium on Parameterized and Exact Computation, (IPEC 2024)*, Royal Holloway, University of London, Egham, United Kingdom, September 4-6, 2024, LIPIcs, vol. 321, pp. 17:1–17:17, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2024. [DOI: [10.4230/LIPICS.IPEC.2024.17](https://doi.org/10.4230/LIPICS.IPEC.2024.17)]
- [9] Václav Blažej, **S. Jana**, M. S. Ramanujan, and Peter Strulo. “On the Parameterized Complexity of Eulerian Strong Component Deletion”. In *19th International Symposium on Parameterized and Exact Computation, (IPEC 2024)*, Royal Holloway, University of London, Egham, United Kingdom, September 4-6, 2024, LIPIcs, vol. 321, pp. 4:1–4:20, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2024. [DOI: [10.4230/LIPICS.IPEC.2024.4](https://doi.org/10.4230/LIPICS.IPEC.2024.4)]
- [10] Aritra Banik, Fedor Fomin, Petr Golovach, Tanmay Inamdar, **S. Jana**, and Saket Saurabh. “Cuts in Graphs with Matroid Constraints”. In *32nd Annual European Symposium on Algorithms (ESA 2024)*, Royal Holloway, London, United Kingdom, September 2-4, 2024, LIPIcs, vol. 308, pp. 17:1–17:15, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2024. [DOI: [10.4230/LIPICS.ESA.2024.17](https://doi.org/10.4230/LIPICS.ESA.2024.17)]
- [11] **S. Jana**, Sounak Modak, Saket Saurabh, and Kushal Singanporia. “Roman Cycle Hitting Set”. In *50th International Workshop on Graph-Theoretic Concepts in Computer Science, (WG 2024)*, Gozd Martuljek, Slovenia, June 19-21, 2024, LNCS, vol. 14760, pp. 282-296, Springer, 2025. [DOI: [10.1007/978-3-031-75409-8_20](https://doi.org/10.1007/978-3-031-75409-8_20)]
- [12] Akanksha Agrawal, **S. Jana**, and Abhishek Sahu. “A Polynomial Kernel for Proper Helly Circular-Arc Vertex Deletion.” In *Theoretical Informatics: 16th Latin American Symposium, (LATIN 2022)*, Puerto Varas, Chile, March 18-22, 2024, LNCS, vol. 14579, pp. 208-222, Springer, 2024. [DOI: [10.1007/978-3-031-55601-2_14](https://doi.org/10.1007/978-3-031-55601-2_14)]
- [13] Sriram Bhyravarapu, **S. Jana**, Saket Saurabh, and Roohani Sharma. “Difference Determines the Degree: Structural Kernelizations of Component Order Connectivity”. In *18th International Symposium on Parameterized and Exact Computation, (IPEC 2023)*. Amsterdam, the Netherlands, Sept 04-08, 2023, LIPIcs, vol. 285, pp. 5:1–5:14, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2023. [DOI: [10.4230/LIPICS.IPEC.2023.5](https://doi.org/10.4230/LIPICS.IPEC.2023.5)]
- [14] **S. Jana**, Daniel Lokshtanov, Soumen Mandal, Ashutosh Rai, and Saket Saurabh. “Parameterized Approximation Scheme for Feedback Vertex Set.” In *48th International Symposium on Mathematical Foundations of Computer Science, (MFCS 2023)*. Bordeaux, France, Aug 28- Sept 01, 2023, LIPIcs, vol. 272, pp. 56:1–56:15, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2023. [DOI: [10.4230/LIPICS.MFCS.2023.56](https://doi.org/10.4230/LIPICS.MFCS.2023.56)]
- [15] **S. Jana**, Souvik Saha, Abhishek Sahu, Saket Saurabh, and Shaily Verma. “Partitioning Subclasses of Chordal Graphs with Few Deletions.” In *Algorithms and Complexity: 13th International Conference, (CIAC 2023)*. Larnaca, Cyprus, June 13-16, 2023, LNCS, vol. 13898, pp. 293-307, Springer, 2023. [DOI: [10.1007/978-3-031-30448-4_21](https://doi.org/10.1007/978-3-031-30448-4_21)]
- [16] Sriram Bhyravarapu, **S. Jana**, Lawqueen Kanesh, Saket Saurabh, and Shaily Verma. “Parameterized algorithms for Eccentricity Shortest Path Problem.” In *Combinatorial Algorithms: 34th International Workshop, (IWOCA 2023)*. Tainan, Taiwan, June 07-10, 2023, LNCS, vol. 13889, pp. 74-86, Springer, 2023. [DOI: [10.1007/978-3-031-34347-6_7](https://doi.org/10.1007/978-3-031-34347-6_7)]
- [17] Akanksha Agrawal, Sutanay Bhattacharjee, **S. Jana**, and Abhishek Sahu. “Parameterized Complexity of Perfectly Matched Sets.” In *17th International Symposium on Parameterized and Exact Computation, (IPEC 2022)*. Potsdam, Germany, September 7-9, 2022, LIPIcs, vol. 249, pp. 2:1–2:13, Schloss Dagstuhl-Leibniz-Zentrum für Informatik, 2022. [DOI: [10.4230/LIPICS.IPEC.2022.2](https://doi.org/10.4230/LIPICS.IPEC.2022.2)]
- [18] Sriram Bhyravarapu, **S. Jana**, Fahad Panolan, Saket Saurabh, and Shaily Verma. “List Homomorphism: Beyond the Known Boundaries.” In *Theoretical Informatics: 15th Latin American Symposium, (LATIN 2022)*, Guanajuato, Mexico, November 7–11, 2022, LNCS, vol. 13568, pp. 593-609, Springer, 2022. [DOI: [10.1007/978-3-031-20624-5_36](https://doi.org/10.1007/978-3-031-20624-5_36)]
- [19] **S. Jana**, Supantha Pandit, and Sasanka Roy. “Balanced connected graph partition.” In *Algorithms and Discrete Applied Mathematics: 7th International Conference, (CALDAM 2021)*, Rupnagar, India, February 11–13, 2021, LNCS, vol. 12601, pp. 487-499, Springer, 2021. [DOI: [10.1007/978-3-030-67899-9_38](https://doi.org/10.1007/978-3-030-67899-9_38)]

- [20] **S. Jana**, Anil Maheshwari, Saeed Mehrabi, and Sasanka Roy. “Maximum bipartite subgraph of geometric intersection graphs.” In *Algorithms and Computation: 14th International Conference, (WALCOM 2020)*, Singapore, March 31–April 2, 2020, LNCS, vol. 12049, pp. 158-169, Springer, 2020. [DOI: [10.1007/978-3-030-39881-1_14](https://doi.org/10.1007/978-3-030-39881-1_14)]
- [21] Sujoy Bhore, **S. Jana**, Supantha Pandit, and Sasanka Roy. “Balanced Connected Subgraph Problem in Geometric Intersection Graphs.” In *Combinatorial Optimization and Applications: 13th International Conference, (COCO 2019)*, Xiamen, China, December 13–15, 2019, LNCS, vol. 11949, pp. 56-68, Springer, 2019. [DOI: [10.1007/978-3-030-36412-0_5](https://doi.org/10.1007/978-3-030-36412-0_5)]
- [22] Sujoy Bhore, Sourav Chakraborty, **S. Jana**, Joseph SB Mitchell, Supantha Pandit, and Sasanka Roy. “The Balanced Connected Subgraph Problem.” In *Algorithms and Discrete Applied Mathematics: 5th International Conference, (CALDAM 2019)*, Kharagpur, India, February 14-16, 2019, LNCS, vol. 11394, pp. 201-215, Springer, 2019. [DOI: [10.1007/978-3-030-11509-8_17](https://doi.org/10.1007/978-3-030-11509-8_17)]
- [23] **S. Jana** and Supantha Pandit. “Covering and Packing of Rectilinear Subdivision.” In *Algorithms and Computation: 13th International Conference, (WALCOM 2019)*, Guwahati, India, February 27–March 2, 2019, LNCS, vol. 11355, pp. 381-393, Springer, 2019. [DOI: [10.1007/978-3-030-10564-8_30](https://doi.org/10.1007/978-3-030-10564-8_30)]

COMMUNICATED WORKS

- [1] “Witness Set: A Visibility Problem in $NP \cap XP$ ” *submitted*.
- [2] “Witness Set in Monotone Polygons: Exact and Approximate” *submitted*.

SCHOLARSHIPS AND AWARDS

- Qualified “ISI JRF” in Computer Science in 2016.
- Qualified “Graduate Aptitude Test in Engineering” (GATE 2015, GATE 2016) in Mathematical Sciences
- Qualified “Lectureship” in CSIR-NET (June 2014, June 2016) in Mathematics.
- Qualified “Joint Admission Test for Masters” (JAM 2013) in Mathematics.
- Provisional offer to the Research program under INSPIRE Fellowship in 2015.
- INSPIRE Scholarship (for five years) from Department of Science and Technology, Govt. of India in 2010.

TEACHING @ IISER BERHAMPUR

✦ **Theory of Computation** Aug - Nov 2026

TEACHING ASSISTANTSHIP

- | | |
|---|------|
| ✦ Randomized Algorithms Integrated PhD, Instructor: Prof. Saket Saurabh
The Institute of Mathematical Sciences | 2023 |
| ✦ Design and Analysis of Algorithms B.Stat (6th Semester), Instructor: Sasanka Roy
Indian Statistical Institute | 2018 |
| ✦ Computational Geometry M.Tech-II year, Instructor: Sasanka Roy
Indian Statistical Institute | 2018 |
| ✦ Computational Geometry M.Tech-II year, Instructor: Sasanka Roy
Indian Statistical Institute | 2017 |
| ✦ Dynamic Programming Summer School on Introduction to Algorithms and Optimization
Indian Statistical Institute | 2017 |

ACADEMIC VISITS

Theoretical Computer Science Group

The Institute of Mathematical Sciences

– Host: Prof. Saket Saurabh

Visiting Researcher

Feb 2026

Dept. of Computer Science and Engineering

IIT Dharwad, India

– Host: Dr. Sandeep R. B.

Visiting Researcher

Nov 2025

Dept. of Informatics

University of Bergen, Norway

– Host: Prof. Saket Saurabh

Visiting Researcher

Sep 2023

School of Computer Sciences

NISER Bhubaneswar, India

– Host: Dr. Aritra Banik

Visiting Researcher

Dec 2022

Dept. of Mathematics

IIT Delhi, India

– Host: Dr. Ashutosh Rai

Visiting Researcher

Aug 2022

Dept. of Mathematics

IIT Guwahati, India

– Host: Dr. Bikash Bhattacharjya

– Title: **Linear Algebra & Fundamental Concept in Graph Theory**

Summer Internship

May-June 2014

ACADEMIC TALKS

- **A Parameterized Perspective of All-Colors** Jun 2025
14th International Conference on Algorithms and Complexity (CIAC), Rome, Italy
- **Multivariate Exploration of Metric Dilation** Mar 2025
42nd International Symposium on Theoretical Aspects of Computer Science (STACS), Jena, Germany
- **Subset Feedback Vertex Set in Tournaments as Fast as Without the Subset** Sep 2024
18th International Symposium on Parameterized and Exact Computation (IPEC), Royal Holloway, UK
- **Cuts in Graphs with Matroid Constraints** Sep 2024
32nd Annual European Symposium on Algorithms (ESA), Royal Holloway, UK
- **Roman Cycle Hitting Set** Jun 2024
50th International Workshop on Graph-Theoretic Concepts in Computer Science (WG), Gozd Martuljek, Slovenia
- **A Polynomial Kernel for Proper Helly Circular-Arc Vertex Deletion** Mar 2024
16th Latin American Symposium on Theoretical Informatics (LATIN), Puerto Varas, Chile
- **Difference Determines the Degree: Structural Kernelizations of COC** Sept 2023
18th International Symposium on Parameterized and Exact Computation (IPEC), Amsterdam, the Netherlands
- **Parameterized Approximation Scheme for Feedback Vertex Set** Jun 2023
48th International Symposium on Mathematical Foundations of Computer Science (MFCS), Bordeaux, France
- **Parameterized algorithms for Eccentricity Shortest Path Problem** Jun 2023

34th International Workshop on Combinatorial Algorithms (IWOCA), Tainan, Taiwan

- **Parameterized Complexity of Perfectly Matched Sets** Sep 2022
17th International Symposium on Parameterized and Exact Computation (IPEC), Potsdam, Germany
- **Balanced Connected Graph Partition** Feb 2021
7th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM), IIT Ropar, India
- **Balanced Connected Subgraph Problem in Geometric Intersection Graphs** Dec 2019
13th International Conference on Combinatorial Optimization and Applications (COCOAA), Xiamen, China
- **Covering and Packing of Rectilinear Subdivision** Mar 2019
13th International Conference and Workshops on Algorithms and Computation (WALCOM), IIT Guwahati, India
- **The Balanced Connected Subgraph Problem** Feb 2019
5th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM), IIT Khargapur, India

INFORMAL TALKS

- **FPT Approximation of Hitting Set: Connectivity is Not an Issue** Feb 2026
Dept. of CSE, IIT Kharagpur, India
- **FPT Approximation of Hitting Set: Connectivity is Not an Issue** Nov 2025
Dept. of CSE, IIT Dharwad, India
- **Breaking Barriers via Parameterized Approximation** Nov 2025
IISER Bhopal, India
- **Covering with Connectivity** Oct 2025
Cake Talk, University of Warwick, UK
- **Difference Determines the Degree: Structural Kernelizations of COC** Oct 2023
TCS Seminar, IMSc Chennai
- **Difference Determines the Degree: Structural Kernelizations of COC** Sept 2023
Friday Talk Series, Dept. of Informatics, University of Bergen, Norway
- **Closest Pair of Points on the Plane** Jun 2023
IMSc Summer Program Lectures in Theoretical Computer Science
- **Partitioning Chordal Graphs with Few Deletions** Apr 2023
Algorithmic Graph Theory Seminar Series: Monday with Marty
- **2-Approximating Feedback Vertex Set in Tournaments** Oct 2022
TCS Seminar, IMSc Chennai
- **Improved Results on Geometric Hitting Set Problems** Oct 2021
TCS Seminar, IMSc Chennai
- **Uniquely Restricted Matchings in Interval Graphs** May 2019
Seminar Series, ACMU, ISI Kolkata

PARTICIPATION IN WORKSHOPS/CONFERENCES/SCHOOLS

○ Workshop on Modern Trends in Parameterized Algorithms, IIT Madras, India	Dec 03 – 06, 2025
○ Symposium on Parameterized and Exact Computation (IPEC), Warsaw, Poland	Sep 17 – 19, 2025
○ European Symposium on Algorithms (ESA), Warsaw, Poland	Sep 15 – 17, 2025
○ Conference on Algorithms and Complexity (CIAC), Rome, Italy	Jun 10 – 12, 2025
○ Symposium on Theoretical Aspects of Computer Science (STACS), Jena, Germany	Mar 04 – 07, 2025
○ Symposium on Parameterized and Exact Computation (IPEC), Royal Holloway, UK	Sep 04 – 06, 2024
○ European Symposium on Algorithms (ESA), Royal Holloway, UK	Sep 02 – 04, 2024
○ Conference on Randomization and Computation (RANDOM)+ APPROX, London, UK	Aug 28 – 30, 2024
○ Workshop on Graph-Theoretic Concepts in Computer Science (WG), Gozd Martuljek, Slovenia	Jun 19 – 21, 2024
○ Symposium on Parameterized and Exact Computation (IPEC), Amsterdam, the Netherlands	Sep 06 – 08, 2023
○ European Symposium on Algorithms (ESA), Amsterdam, the Netherlands	Sep 04 – 06, 2023
○ Symposium on Mathematical Foundations of Computer Science (MFCS), Bordeaux, France	Aug 28 – Sep 1, 2023
○ Workshop on Recent Trends in Algorithms (RTA), NISER Bhubaneswar	July 26 – 10, 2023
○ Conference on Foundations of Software Technology and Theo. Comp. Science (FSTTCS), IITM	Dec 18 – 20, 2022
○ Workshop on Algorithms under Uncertainty, IIT Madras	Dec 16 – 17, 2022
○ Workshop on Combinatorial Reconfiguration and Fixed-Parameter Tractability, Online	Dec 12, 2022
○ GIAN Course on Randomized Methods For Approximation & Parameterized Algorithms, IITGN	Dec 05 – 09, 2022
○ Workshop on Domination in Graphs (IWDG), Online, IIT Ropar	Nov 16 – 21, 2021
○ NPTEL Online Course on Parameterized Algorithms	July 26 – Oct 15, 2021
○ Workshop on Recent Trends in Algorithms (RTA), Online, IMSc Chennai	Mar 02 – 05, 2021
○ ACM India Winter School on Algorithms and Lower Bounds, Online, CMI and IIT Madras	Jan 03 – 12, 2021
○ Conference on Combinatorial Optimization and Applications (COCOA), Xiamen, Fujian, China	Dec 13 – 15, 2019
○ Conference and Workshops on Algorithms and Computation (WALCOM), IIT Guwahati	Feb 27 – Mar 02, 2019
○ Conference on Algorithms and Discrete Applied Mathematics (CALDAM), IIT Kharagpur	Feb 14 – 16, 2019
○ Indo-Italian Pre-Conference School on Algorithms and Combinatorics, IIT Kharagpur	Feb 11 – 12, 2019
○ Workshop on Recent Trends in Algorithms (RTA), NISER Bhubaneswar	Feb 07 – 10, 2019
○ Winter School on Algorithms, Optimization and Learning, ISI Kolkata	Jan 01 – 04, 2019
○ Conference on Algorithms and Discrete Applied Mathematics (CALDAM), IIT Guwahati	Feb 15 – 17, 2018
○ Indo-Canadian Pre-Conference School on Algorithms and Combinatorics, IIT Guwahati	Feb 12 – 13, 2018
○ Workshop on Lecture series on Parallel Processing for Large Networks, ISI Kolkata	Dec 27 – 29, 2017
○ GIAN Course on Decentralized Computations: From Nets to Swarms, ISI Kolkata	Dec 04 – 08, 2017

PROFESSIONAL SERVICES

✧ Program Committee Member

an workshop in ICDCN 25

✧ Reviewer (for Conferences)

ICALP 26,25, STACS 26,24, ESA 26,24, MFCS 26,23, ISAAC 25,24, WADS 23, WG 25,23, SWAT 26, FSTTCS 25,24, IPEC 25,23, SOFSEM 25,24, CSR 21, WAOA 20, COCOON 25,20, IWOCA 24, 20, CCCG 26,25, WALCOM 26,24,20, CALDAM 26,20, ICDCN 25, IRISS 21

✧ Reviewer (for Journal Articles)

Algorithmica 26,25, Journal of Computer and System Sciences 26,25,24,23, Knowledge-Based Systems 26, Theoretical Computer Science 26,25, Discrete Applied Mathematics 26,25,24,22,21,20, Computational Geometry 19, Theory of Computing Systems 24, International Journal of Foundations of Computer Science 26, Discrete Mathematics & Theoretical Computer Science 25,24, Acta Informatica 25,24, Information Sciences 26, Theory and Applications of Graphs 23, Mathematics 26, Journal of Interconnection Networks 23

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