

**CALDAM 2020 Program**  
**Indian Institute of Technology, Hyderabad**  
**13–15 February, 2020**

<b>Time</b>	<b>Day 0: 12 February, 2020 (Wednesday)</b>
19:30 hr. – 21:30 hr.	Welcome Dinner
<b>Time</b>	<b>Day 1: 13 February, 2020 (Thursday)</b>
8:00 hr.	Registration and Inauguration
<b>Session I</b>	<b>Google Invited Talk I : Chair: Sandip Das</b>
8:45 hr. – 10:00 hr.	Sergio Cabello <i>Interactions between Geometry, Graphs and Algorithms</i>
10:00 hr. – 10:30 hr.	Tea
<b>Session II</b>	<b>Graph Algorithms 1: Chair: Apurva Mudgal</b>
10:30 hr. – 10:55 hr.	Sangram K. Jena and Gautam K. Das <i>Vertex Edge Domination in Unit Disk Graphs</i>
10:55 hr. – 11:20 hr.	B S Panda and Pooja Goyal <i>Hardness Results of Global Total <math>k</math>-Domination Problem in Graphs</i>
11:20 hr. – 11:45 hr.	Dibyayan Chakraborty, Florent Foucaud, Harmender Gahlawat, Subir Kumar Ghosh and Bodhayan Roy <i>Hardness and approximation for the geodetic set problem in some graph classes</i>
11:45 hr. – 12:10 hr.	Michel Habib, Lalla Mouatadid and Mengchuan Zou <i>Approximating Modular Decomposition is Hard</i>
12:10 hr. – 12:35 hr.	Shalu M. A. and Cyriac Antony <i>Complexity of Restricted Variant of Star Colouring</i>
12:35 hr. – 13:35 hr.	<b>Lunch</b>
<b>Session III</b>	<b>Computational Complexity : Chair: N.R.Aravind</b>
13:35 hr. – 14:00 hr.	Frédéric Havet, Dorian Mazauric, Ha Nguyen and Rémi Watrigant <i>Overlaying a hypergraph with a graph with bounded maximum degree</i>
14:00 hr. – 14:25 hr.	Raphael Steiner and Sebastian Wiederrecht <i>Parameterized Algorithms for Directed Modular Width</i>
14:25 hr. – 14:50 hr.	Chamanvir Kaur and Neeldhara Misra <i>On the Parameterized Complexity of Spanning Trees with Small Vertex Covers</i>
14:50 hr. – 15:15 hr.	Pradeesha Ashok, Rathin Bhargava, Naman Gupta, Mohammad Khalid and Dolly Yadav <i>Minimum Conflict free Colouring Parameterized by Treewidth</i>
15:15 hr. – 15:45 hr.	<b>Tea</b>

<b>Session IV</b>	<b>Computational Geometry : Chair: Swami Sarvottamanada</b>
15:45 hr. –	Aravind Nr and Udit Maniyar
16:10 hr.	<i>Planar projections of graphs</i>
16:10 hr. –	Sergey Bereg and Mohammadreza Haghpanah
16:35 hr.	<i>New Algorithms and Bounds for Halving Pseudolines</i>
16:35 hr. –	Sergey Bereg and Mohammadreza Haghpanah
17:00 hr.	<i>Algorithms for Radon Partitions with Tolerance</i>
<b>Special Session</b>	<b>Business Meetings : Chair: Subir Ghosh</b>
17:15 hr. –	<b>CALDAM Business Meeting</b>
18:15 hr.	
18:15 hr. –	<b>ACSDM Business Meeting</b>
19:00 hr.	

<b>Time</b>	<b>Day 2: 14 February, 2020 (Friday)</b>
<b>Session V</b>	<b>Graph Theory I : Chair :Manoj Changat</b>
9:05 hr. – 9:30 hr.	Soura Sena Das, Soumen Nandi and Sagnik Sen <i>The Relative Oriented Clique Number of Triangle-Free Planar Graphs is 10</i>
9:30 hr. – 9:55 hr.	Laurent Beaudou, Florent Foucaud and Reza Naserasr <i>Smallest <math>C_{2l+1}</math>-critical graphs of odd-girth <math>2k + 1</math></i>
9:55 hr. – 10:20 hr.	Dimitri Lajou <i>On Cartesian products of signed graphs</i>
10:20 hr. – 10:45 hr.	Mark Korenblit and Vadim Levit <i>On Algebraic Expressions of Two-Terminal Directed Acyclic Graphs</i>
10:45 hr. – 11:15 hr.	<b>Tea</b>
<b>Session VI</b>	<b>Google Invited Talk II : Chair: M.V. Panduranga Rao</b>
11:15 hr. – 12:30 hr.	Douglas B West <i>Slow Coloring Game on Graphs</i>
12:30 hr. – 13:35 hr.	<b>Lunch</b>
<b>Session VII</b>	<b>Graph Algorithms II: Chair: Eric Sopena</b>
13:35 hr. – 14:00 hr.	Sayan Bandyapadhyay, Aritra Banik, Sujoy Bhore and Martin Nöllenburg <i>Geometric Planar Networks on Bichromatic Points</i>
14:00 hr. – 14:25 hr.	Pavol Hell, César Hernández-Cruz and Anurag Sanyal <i>Partitioning cographs into two forests and one independent set</i>
14:25 hr. – 14:50 hr.	Florent Foucaud, Ralf Klasing, Mirka Miller and Joe Ryan <i>Monitoring the edges of a graph using distances</i>
14:50 hr. – 15:15 hr.	Mathew Francis and Dalu Jacob <i>The Lexicographic Method for the Threshold Cover Problem</i>
15:15 hr. – 15:40 hr.	Arti Pandey, Gopika Sharma and Nivedit Jain <i>Maximum Weighted Edge Biclique Problem on Bipartite Graphs</i>
15:40 hr. – 16:10 hr.	<b>Tea</b>
<b>Session VIII</b>	<b>Combinatorial Algorithms : Chair: Michel Habib</b>
16:10 hr. – 16:35 hr.	Marsden Jacques and Dennis Wong <i>Greedy universal cycle constructions for weak orders</i>
16:35 hr. – 17:00 hr.	Rolf Klein, David Kübel, Elmar Langetepe, Jörg-Rüdiger Sack and Barbara Schwarzwald <i>A New Model in Firefighting Theory</i>
17:05 hr. – 17:30 hr.	Sofiat Olaosebikan and David Manlove <i>An Algorithm for Strong Stability in the Student-Project Allocation Problem with Ties</i>
<b>Session IX</b>	<b>Combinatorial Optimization : Chair: Florent Foucaud</b>
17:30 hr. – 17:55 hr.	Umair Arif, Robert Benkoczi, Daya Gaur and Ramesh Krishnamurti <i>On the minimum satisfiability problem</i>
17:55 hr. – 18:20 hr.	Björn Tauer, Dennis Fischer, Janosch Fuchs, Laura Vargas Koch and Stephan Zieger <i>Waiting for Trains: Complexity Results</i>
20:00 hr.	<b>Banquet Dinner</b>

<b>Time</b>	<b>Day 3: 15 February, 2020 (Saturday)</b>
<b>Session X</b>	<b>Graph Theory II : Chair: Reza Naserasr</b>
9:15 hr. – 9:40 hr.	Sajith Padinhatteeri, L. Sunil Chandran and Karthik Ravi Shankar <i>List distinguishing number of <math>p^{\text{th}}</math> power of hypercube and Cartesian powers of a graph</i>
9:40 hr. – 10:05 hr.	P. Roushini Leely Pushpam and Srilakshmi <i>Weak Roman Bondage Number of a Graph</i>
10:05 hr. – 10:30 hr.	Manu Basavaraju, Yash Jivani, Huzaifa Abbasi, Eeshwar Gurushankar and Deepak Srikanth <i>Ramsey Numbers for Line Graphs</i>
10:30 hr. – 10:55 hr.	Bijo S. Anand, Prasanth G. Narasimha-Shenoi and Sabeer Sain R. <i><math>\Delta</math>-Convexity number and <math>\Delta</math>-Number of Graphs and Graph Products</i>
10:55 hr. – 11:25hr	<b>Tea</b>
<b>Session XI</b>	<b>Graph Theory III: Chair: Daya Gaur</b>
11:25 hr. – 11:50 hr.	Priyanka Singh, Pratima Panigrahi and Aakash Singh <i>Self-centeredness of generalized Petersen graphs</i>
11:50 hr. – 12:15 hr.	Angsuman Das <i>Determining Number of Generalized and Double Generalized Petersen Graph</i>
12:15 hr. – 12:40 hr.	Ullas Chandran S. V., Mitre C. Dourado and Maya G. S. Thankachy <i>On the geodetic and hull numbers of shadow graphs</i>
12:40 hr. – 13:05 hr.	Francis Raj S, Francis P and Gokulnath M <i>Indicated colouring of complete expansion and lexicographic product of graphs</i>
13:05 hr. – 14:10 hr.	<b>Lunch</b>
<b>Session XII</b>	<b>Distributed Algorithms: Chair: Subrahmanyam Kalyanasundaram</b>
14:10 hr. – 14:35 hr.	Ajish Kumar K S, Deepak Rajendraprasad and Sudeep K S <i>Oriented Diameter of Star Graphs</i>
14:35 hr. – 15:00 hr.	Subhash Bhagat, Abhinav Chakraborty, Bibhuti Das and Krishnendu Mukhopadhyaya <i>Gathering over Meeting Nodes of Infinite Grid</i>
15:00 hr. – 15:25 hr.	Subhrangsu Mandal and Arobinda Gupta <i>0-1 Timed Matching in Bipartite Temporal Graphs</i>
15:25 hr. – 15:50 hr.	Kaustav Bose, Ranendu Adhikary, Manash Kumar Kundu and Buddhadeb Sau <i>Arbitrary Pattern Formation by Opaque Fat Robots with Lights</i>
16:00 hr.	<b>Closing session &amp; Tea</b>