

ICGT 2022 Schedule

Monday, July 4th (morning)

08:30 - 09:15	Registration			
09:15 - 09:30	Welcome			
09:30 - 10:30	Invited Talk (room: Amphi Dumontet, Bât 7): Reinhard Diestel: <i>Canonical graph decompositions via coverings</i>. Chair: Jørgen Bang-Jensen			
10:30 - 10:45	Coffee break			
	Room: 36.05 Session 1.1. Chair: Fedor Fomin	Room: 36.06 Session 1.2. Chair: Julien Baste	Room: 36.07 Session 1.3. Chair: Ervin Gyori	
10:45 - 11:15	Jan van den Heuvel and Xinyi Xu . <i>Towards Stahl's Conjecture: Multi-Colouring of Kneser Graphs</i> (paper 69)	Fedor V. Fomin, Petr A. Golovach, Ignasi Sau, Giannos Stamoulis and Dimitrios M. Thilikos. <i>Obstruction Set Constructibility of Minor-Closed Graph Classes</i> (paper 60)	Valentin Bouquet . <i>The bondage number of chordal graphs</i> (paper 59)	
11:15 - 11:45	Daniel Gonçalves, Pascal Ochem and Matthieu Rosenfeld. <i>Avoiding large squares in trees and planar graphs</i> (paper 75)	Fernando Esteban Contreras-Mendoza and César Hernández-Cruz. <i>Minimal obstructions for properties related to polarity on cograph superclasses</i> (paper 11)	Canguang Lin and Annegret Wagler . <i>Infinite families of non-superperfect graphs based on even antiholes</i> (paper 19)	
11:45 - 12:15	Mária Maceková, Roman Soták and Zuzana Šárošiová . <i>Interval vertex coloring</i> (paper 63)	Emmanouil Lardas, Evangelos Protopapas , Dimitrios M. Thilikos and Dimitris Zoros. <i>On Strict Brambles</i> (paper 47)	Milad Ahanjideh, Tınaz Ekim and Mehmet Akif Yıldız. <i>Maximum size of a triangle-free graph with bounded maximum degree and matching number</i> (paper 42)	
12:30 - 14:00	Lunch			

Monday, July 4th (afternoon)

14:00 - 15:00	Invited Talk (room: Amphi Dumontet, Bât 7) <u>Vida Dujmović:</u> <i>Stack and Queue layouts.</i> Chair: Daniel Gonçalves			
15:00 - 16:00	Open problems session. Chair: Frédéric Havet			
16:00 - 16:30	Coffee break			
	Room: 36.05 Session 2.1. Chair: Thomas Bellitto	Room: 36.06 Session 2.2. Chair: Petr Golovach	Room: 36.07 Session 2.3. Chair: Florent Foucaud	
16:30 - 17:00	Tapas Das, Tuomo Lehtilä, Soumen Nandi, Sagnik Sen and D K Supraja. <i>On radio k-coloring of the power of the infinite path</i> (paper 71)	Narmina Baghirova, Clément Dallard, Bernard Ries and David Schindl. <i>On k-community struc- tures in special graph classes</i> (pa- per 56)	Pegah Pournajafi and Nicolas Trotignon. <i>Burling graphs revis- ited</i> (paper 65)	
17:00 - 17:30	Nicolas Bousquet, Quentin De- schamps, Lucas de Meyer, and Théo Pierron. <i>Improved square coloring of planar graphs</i> (paper 46)	Eric Duchêne, Arthur Dumas, Nacim Oijid, Aline Parreau and Eric Rémila. <i>Maker-Maker Domination Game</i> (paper 36)	Jarne Renders, Jan Goedge- beur, Gábor Wiener and Carol T. Zamfirescu. <i>On K_2- hamiltonian graphs</i> (paper 22)	

Tuesday, July 5th (morning)

09:00 - 10:00	Invited Talk (room: Amphi Dumontet, Bât 7): <u>Martin Grohe</u>: <i>The Algebra of Homomorphism Counts</i>. Chair: Petr Golovach			
10:00 - 10:15	Coffee break			
	Room: 36.05 Session 3.1. Chair: Mickaël Montassier	Room: 36.06 Session 3.2. Chair: Julien Baste	Room: 36.07 Session 3.3. Chair: Tinaz Ekim	Room: 36.08 Session 3.4. Chair: Daniel Gonçalves
10:15 - 10:45	Jean-Christophe Godin, Rémi Grisot, and Olivier Togni . <i>List coloring with separation of the complete graph</i> (paper 53)	Claire Hilaire and Jean-Florent Raymond. <i>Long induced paths in graphs with bounded treewidth</i> (paper 49)	Babak Ghanbari and Javad B. Ebrahimi. <i>Fractional forcing number of graphs</i> (paper 58)	Florian Hörsch , Tomáš Kaiser and Matthias Kriesell. <i>Rainbow spanning trees for small color classes</i> (paper 9)
10:45 - 11:15	Stijn Cambie, Wouter Cames van Batenburg , Ewan Davies and Ross J. Kang. <i>The list-packing number</i> (paper 32)	Cyril Gavoille and Arnaud Labourel. <i>Smaller Universal Graphs for Caterpillars and Graphs of Bounded Pathwidth</i> (paper 54)	Stéphane Bessy, Johannes Pardey, Lucas Picasarri-Arrieta and Dieter Rautenbach . <i>Factorially many maximum matchings close to the Erdős-Gallai bound</i> (paper 3)	Katarína Čekanová, Mária Maceková, Roman Soták and Zuzana Šárošiová. <i>Note on light 3-stars in embedded graphs</i> (paper 64)
11:15 - 11:45	Grzegorz Gutowski , Marcin Anholcer, Bartłomiej Bosek, Jarosław Grytczuk, Jakub Przybyło and Mariusz Zając. <i>A Note on Generalized Majority Colorings</i> (paper 82)	Raphael Steck and Henning Bruhn-Fujimoto. <i>Graphs of large treewidth don't have the edge-Erdős-Pósa property</i> (paper 30)	Fedor V. Fomin, Petr A. Golovach and Saket Saurabh. <i>Matchings in Frameworks</i> (paper 35)	
12:00 - 14:00	Lunch			

Tuesday, July 5th (afternoon)

14:00 - 15:00	Invited Talk (room: Amphi Dumontet, Bât 7): Fedor Fomin: <i>Long cycles in graphs: Extremal Combinatorics meets Parameterized Algorithms.</i> Chair: Dimitrios M. Thilikos			
	Room: 36.05 Session 4.1. Chair: Annegret Wagler	Room: 36.06 Session 4.2. Chair: Ervin Győri	Room: 36.07 Session 4.3. Chair: Emeric Gioan	
15:15 - 15:45	Dipayan Chakraborty , Florent Foucaud, Aline Parreau and Annegret K. Wagler. <i>On three domination-based identification problems in block graphs</i> (paper 31)	Dániel Grósz, Abhishek Methuku and Casey Tompkins . <i>Ramsey numbers of Boolean lattices</i> (paper 43)	Maximilian Gorsky , Raphael Steiner and Sebastian Wiederrecht. <i>Matching Theory and Barnette's Conjecture</i> (paper 12)	
15:45 - 16:15	Florent Foucaud and Tuomo Lehtilä . <i>Improved upper bounds for identifying codes in trees and other graphs</i> (paper 52)	Domenico Mergoni , Peter Allen, Jozef Skokan and Barnaby Roberts. <i>The Ramsey number of square of paths</i> (paper 84)	François Pitois , Mohammed Haddad, Hamida Seba and Olivier Togni. <i>Polynomial characterization of the set of r-splits of a graph</i> (paper 83)	
16:15 - 16:45	Coffee break			
	Room: 36.05 Session 5.1. Chair: William Lochet	Room: 36.06 Session 5.2. Chair: Cyril Gavoille	Room: 36.07 Session 5.3. Chair: Pascal Ochem	
16:45 - 17:15	Pierre Aboulker , Guillaume Aubian and Raphael Steiner. <i>Heroes in orientations of chordal graphs</i> (paper 23)	Thomas Dissaux and Nicolas Nisse. <i>Pathlength of Outerplanar graphs</i> (paper 16)	Sagnik Sen, Éric Sopena and S Taruni . <i>Homomorphisms of (n, m)-graphs with respect to generalized switch</i> (paper 70)	
17:15 - 17:45	Pierre Aboulker, Guillaume Aubian and Pierre Charbit. <i>Heroes in Orientations of Complete Multipartite Graphs</i> (paper 39)	Pierre Bergé , Édouard Bonnet and Hugues Déprés. <i>Deciding twin-width at most 4 is NP-complete</i> (paper 6)	Emeric Gioan . <i>On counting orientations for graph homomorphisms and for dually embedded graphs using the Tutte polynomial of matroid perspectives</i> (paper 73)	

Wednesday, July 6th (morning)

09:00 - 10:00	Invited Talk (room: Amphi Dumontet, Bât 7): Jean-Sébastien Sereni: <i>Spanning trees in regular graphs.</i> Chair: Frédéric Havet			
10:00 - 10:15	Coffee break			
	Room: 36.05 Session 6.1. Chair: Raul Lopes	Room: 36.06 Session 6.2. Chair: Marin Bougeret	Room: 36.07 Session 6.3. Chair: Pierre Aboulker	Room: 36.08 Session 6.4. Chair: Casey Tompkins
10:15 - 10:45	Hoang La , Kolja Knauer and Petru Valicov. <i>Feedback vertex sets in (directed) graphs of bounded degeneracy or treewidth</i> (paper 10)	Felix Bock , Johannes Pardey, Lucia D. Penso and Dieter Rautenbach. <i>A bound on the dissociation number</i> (paper 1)	Antoine Dailly , Éric Duchêne, Aline Parreau and Elżbieta Sidorowicz. <i>Neighbour sum-distinguishing edge colorings with local constraints</i> (paper 8)	Gyula Y. Katona , Khan Humara and Kitti Varga. <i>Minimally tough graphs in special classes</i> (paper 50)
10:45 - 11:15	Jørgen Bang-Jensen , Kasper Skov Johansen and Anders Yeo. <i>Making a tournament k-strong by adding new arcs</i> (paper 77)	Felix Bock, Mitre Costa Dourado, Johannes Pardey, Lucia Draque Penso and Dieter Rautenbach. <i>Hardness of Relating Dissociation, Independence, and Matchings</i> (paper 34)	Tomáš Madaras and Alfréd Onderko . <i>On edge colorings of graphs with no color-rich cycles</i> (paper 55)	Clément Dallard , Blas Fernández, Gyula Y. Katona and Martin Milanič. <i>Necessary induced subgraphs of minimally tough graphs</i> (paper 51)
11:15 - 11:45	Yun Wang and Jørgen Bang-Jensen. <i>Arc-disjoint out- and in-branchings with the same root in co-bipartite digraphs</i> (paper 79)	Felicia Lucke and Bernard Ries. <i>Transversals of Maximum Independent Sets</i> (paper 48)	Jonathan Narboni . <i>Vizing's conjecture holds</i> (paper 85)	
12:00 - 14:00	Lunch			

Wednesday, July 6th (afternoon)

14:00 - 15:00	Invited Talk (room: Amphi Dumontet, Bât 7): Kristina Vušković: <i>Graph structure and algorithms</i>. Chair: Pierre Aboulker			
	Room: 36.05 Session 7.1. Chair: Petru Valicov	Room: 36.06 Session 7.2. Chair: Olivier Togni	Room: 36.07 Session 7.3. Chair: Aline Parreau	
15:15 - 15:45	Thomas Bellitto , Nicolas Bousquet, Adam Kabela and Théo Pierron. <i>The smallest 5-chromatic tournament</i> (paper 45)	Guillaume Bonfante and Florian Deloup . <i>A graph perspective on the genus of regular languages</i> (paper 5)	Boštjan Brešar, Arti Pandey and Gopika Sharma . <i>Algorithmic Results on Grundy Total Domination and Grundy Double Domination</i> (paper 41)	
15:45 - 16:15	Pierre Aboulker, Thomas Bellitto, Frédéric Havet and Clément Rambaud . <i>On the minimum number of arcs in 3-dicritical oriented graphs</i> (paper 27)	Mohammad Abudayah and Omar Alomari. <i>On the Cospectrality of Hermitian Adjacency Matrices of a Mixed Graph</i> (paper 18)	A. A. Pereira and C. N. Campos. <i>Dominating and Independent Dominating Sets in Goldberg Snarks</i> (paper 25)	
16:15 - 16:45	Coffee break			
	Room: 36.05 Session 8.1. Chair: Petr Golovach	Room: 36.06 Session 8.2. Chair: Roman Sotak	Room: 36.07 Session 8.3. Chair: Sebastian Wiederrecht	
16:45 - 17:15	Marco Caoduro , Jana Cslovjecssek, Michał Pilipczuk and Karol Węgrzycki. <i>On the hitting/packing ratio of axis-parallel segments</i> (paper 44)	Omar Alomari and Mohammad Abudayah . <i>On the Inverse of α-Hermitian Adjacency Matrix of Mixed Graphs</i> (paper 17)	Julien Baste, Antoine Castillon , Clarisse Dhaenens, Mohammed Haddad and Hamida Seba. <i>γ-Cluster Edge Modification Problems</i> (paper 40)	
17:15 - 17:45	Daniel Gonçalves, Vincent Limouzy and Pascal Ochem. <i>Contact graphs of boxes with unidirectional contacts</i> (paper 61)	Zin Mar Myint , Soura Sena Das, Soumen Nandi, Sagnik Sen and Éric Sopena. <i>A generalization of Brussels sprouts</i> (paper 72)	Felix Mann and Felicia Lucke. <i>Using Edge Contractions and Vertex Deletions to Reduce the Independence Number and the Clique Number</i> (paper 57)	

Thursday, July 7th

09:00 - 10:00	Invited Talk (room: Amphi Dumontet, Bât 7): Gwenaël Joret: <i>Product structure of planar graphs</i>. Chair: David Wood			
10:00 - 10:15	Coffee break			
	Room: 36.05 Session 9.1. Chair: Florian Deloup	Room: 36.06 Session 9.2. Chair: Vincent Limouzy	Room: 36.07 Session 9.3. Chair: Nicolas Nisse	
10:15 - 10:45	Tobias Hofmann and Frank Göring. <i>Certain extremal uni- formly connected graphs</i> (paper 74)	Florian Galliot , Sylvain Gravier and Isabelle Sivignon. <i>(k - 2)-linear connected compo- nents in hypergraphs of rank k</i> (paper 80)	Julio Araujo, Marin Bougeret , Victor Campos and Ignasi Sau. <i>Introducing lop-kernels: a frame- work for kernelization lower bounds</i> (paper 24)	
10:45 - 11:15	Ervin Győri , Chunqiu Fang, Chuanqi Xiao and Jimeng Xiao. <i>Turan numbers and anti-Ramsey numbers for short cycles in com- plete 3-partite graphs</i> (paper 33)	Nika Salia . <i>Pósa-type results for Berge-hypergraphs</i> (paper 38)	Julien Baste and Dimitri Wa- tel . <i>An FPT algorithm for node- disjoint subtrees problems param- eterized by treewidth</i> (paper 13)	
11:15 - 11:45	Addisu W. Paulos, Ervin Győri and Chuaqi Xiao. <i>General- ized outerplanar Turán number of short paths</i> (paper 78)	Dhannya S M, Narayanaswamy N S and Nisha K K . <i>Exactly Hittable Interval Graphs</i> (paper 76)	Dušan Knop, Šimon Schierre- ich and Ondřej Suchý. <i>Waypoint routing on bounded treewidth graphs</i> (paper 21)	
12:00 - 14:00	Lunch			
from 15:00	Social activity + Conference dinner			

Friday, July 8th

09:00 - 10:00	Invited Talk (room: Amphi Dumontet, Bât 7): David Eppstein : <i>Graphs in Nature</i> . Chair: Jérémie Chalopin			
10:00 - 10:15	Coffee break			
	Room: 36.05 Session 10.1. Chair: Stéphane Bessy	Room: 36.06 Session 10.2. Chair: Dimitrios M. Thilikos	Room: 36.07 Session 10.3. Chair: William Lochet	
10:15 - 10:45	Johannes Pardey and Dieter Rautenbach . <i>Almost balanced perfect matchings in balanced edge-colored complete graphs</i> (paper 37)	James A. Long Jr., Kevin G. Milans and Andrea Munaro . <i>Non-empty intersection of longest paths in H-free graphs</i> (paper 81)	Patrice Ossona de Mendez , Mario Gboler, Yiting Jiang, Sebastian Siebertz and Alexandre Vigny. <i>Discrepancy and Sparsity</i> (paper 20)	
10:45 - 11:15	Christophe Picouleau and Valentin Bouquet. <i>The Perfect Matching-Cut problem in bipartite graphs with diameter two</i> (paper 15)	Anni Hakanen , Ville Junnila, Tero Laihonen and Ismael Yero. <i>On the Vertices Forced to Be in Every Metric Basis</i> (paper 26)	Timothée Corsini, Quentin Deschamps, Carl Feghali, Daniel Gonçalves, Hélène Langlois and Alexandre Talon . <i>Partitioning into degenerate graphs in linear time</i> (paper 68)	
11:15 - 11:45	Nicolas El Maalouly and Raphael Steiner. <i>Exact Matching in Graphs of Bounded Independence Number</i> (paper 28)	Santiago Guzmán-Pro , Pavol Hell and César Hernández-Cruz. <i>Circular orderings of graphs</i> (paper 2)	Laurent Feuilloley , Nicolas Bousquet and Théo Pierron. <i>What can be certified compactly? (Compact local certification of MSO properties in tree-like graphs)</i> (paper 62)	
12:00 - 14:00	Lunch			
14:00 - 15:00	Invited Talk (room: Amphi Dumontet, Bât 7): Virginia Vassilevska Williams : <i>Subgraph Isomorphism for Constant Size Patterns: Algorithms and Hardness</i> . Chair: Cristophe Paul			
15:00 - 15:15	Conclusion of ICGT 2022			