

ICGT 2018 schedule

Monday morning

8:30 - 9:30	Welcome - registration				
9:30 - 10:30	Plenary talk (room: Amphi 9): Carsten Thomassen : <i>From finite to countable to uncountable</i> . Chair: N. Trotignon				
	Room: Amphi 7 Chair: L. Esperet	Room: Amphi 8 Chair: G. Naves	Room: Amphi 9 Chair: K. Knauer	Room: Amphi 10 Chair: A. Mary	Room: Amphi 11
10:45 - 11:10	Olivier Baudon, Julien Bensmail, Tom Davot, Hervé Hocquard, Jakub Przybyło, Mohammed Senhaji, Éric Sopena and Mariusz Woźniak. <i>A general decomposition theory for the 1-2-3 Conjecture and locally irregular decompositions</i> (paper 21)	Gabriela Argiroffo, Silvia Bianchi, Yanina Lucarini and Annegret Wagler. <i>On the identifying code number of block graphs</i> (paper 8)	Marieke van der Wegen and Ragnar Groot Koerkamp. <i>Stable gonality is computable</i> (paper 32)	Fanny Dufossé, Kamer Kaya, Ioannis Panagiotas and Bora Uçar. <i>Scaling matrices and counting the perfect matchings in graphs</i> (paper 61)	
11:10 - 11:35	Jakub Przybyło and Julien Bensmail. <i>Decomposability of graphs into subgraphs fulfilling the 1-2-3 Conjecture</i> (paper 69)	María Luz Puertas, Ville Junnila, Tero Laihonen and Tuomo Lehtilä. <i>On Stronger Types of Locating-dominating Codes</i> (paper 9)	Ross J. Kang and Willem van Loon. <i>Tree-like distance colouring for planar graphs of sufficient girth</i> (paper 40)	Alexandre Bazin, Laurent Beaudou, Giacomo Kahn and Kaveh Khoshkhah. <i>Bounding the Number of Minimal Transversals in Tripartite 3-Uniform Hypergraphs</i> (paper 103)	
11:35 - 12:00	Mariusz Wozniak. <i>On directed versions of the 1-2-3 Conjecture and the 1-2 Conjecture</i> (paper 129)	Tuomo Lehtilä, Ville Junnila and Tero Laihonen. <i>On a Conjecture regarding Identification in the Hamming Graphs</i> (paper 15)	Gabrielle Paris, Paul Dorbec, Éric Sopena and Elzbieta Sidorowicz. <i>Marking game and graph operators</i> (paper 47)	Loiret Alejandría Dosal-Trujillo and Hortensia Galeana-Sánchez. <i>Fibonacci numbers of graphs composition on some circulant graphs</i> (paper 115)	
12:00 - 14:00	Lunch				

Monday afternoon

14:00 - 15:00	Plenary talk (room: Amphi 9): Daniela Kühn : <i>On a conjecture of Erdős on locally sparse Steiner triple systems</i> . Chair: F. Havet				
	Room: Amphi 7 Chair: A. Harutyunyan	Room: Amphi 8 Chair: C. Picouleau	Room: Amphi 9 Chair: S. Thomassé	Room: Amphi 10 Chair: N. Nisse	Room: Amphi 11 R. Watrigant
15:15 - 15:40	Balthazar Bauer and Lucas Isenmann. <i>Discrete Morse theory for the collapsibility of supremum sections</i> (paper 71)	Jean-Christophe Godin and Olivier Togni. <i>Graph coloring reduction methods and application to McDiarmid-Reed's Conjecture</i> (paper 54)	Neal Bushaw, Andrzej Czygrinow and Jangwon Yie. <i>Even Cycles in Dense Graphs</i> (paper 36)	Hsin-Min Sun. <i>Existence of Simple (q,k,λ) BIBDs with q congruent to 1 modulo $k(k-1)$</i> (paper 4)	
15:40 - 16:05	Adrian Binding and Jan Volec. <i>Chains and anti-chains of length four in partially ordered sets</i> (paper 77)	Marthe Bonamy, Théo Pierron and Eric Sopena. <i>Every planar graph of maximum degree 8 is totally 10-choosable</i> (paper 52)	Richard Mycroft and Tásio Naia. <i>Spanning trees of dense digraphs</i> (paper 73)	Cristina Martinez Ramirez and Alberto Besana. <i>Constructing set systems from graph alphabets</i> (paper 60)	tba
16:05 - 16:30	Coffee break				
	Room: Amphi 7 Chair: M. Preissmann	Room: Amphi 8 Chair: A. Parreau	Room: Amphi 9 Chair: N. Trotignon	Room: Amphi 10 Chair: F. Havet	Room: Amphi 11
16:30 - 16:55	Alexandre Talon and Michael Rao. <i>Domination problems in grid graphs</i> (paper 105)	Grzegorz Kubicki and Ewa Kubicka. <i>Total colorings of graphs with minimum sum of colors; existence of T-strong graphs and trees</i> . (paper 58)	Sima Saadat Akhtar, Saeed Akbari and Yousef Bagheri. <i>Some Bounds on the Energy of Signed Complete Bipartite Graphs</i> (paper 133)	Petru Valicov and Kolja Knauer. <i>Cuts in matchings of 3-edge-connected cubic graphs</i> (paper 42)	
16:55 - 17:20	Jan van den Heuvel and H.A. Kierstead. <i>Uniform Orderings for Generalised Colouring Numbers and Graph Classes with Bounded Expansion</i> (paper 96)	Ilkyoo Choi, Ringi Kim and Boram Park. <i>Characterization of forbidden subgraphs for bounded star chromatic number</i> (paper 59)	Yousef Bagheri, Saeed Akbari, Sima Saadat Akhtar and Amir Hossein Ghodrati. <i>Some Lower Bounds of the Energy of Graphs</i> (paper 134)	Nishad Kothari, Marcelo de Carvalho, Charles Little and Claudio Lucchesi. <i>On essentially 4-edge-connected cubic bricks</i> (paper 82)	
17:20 - 17:45	K.-T. Chu, W.-H. Lin and C. Chen. <i>Strong duality and mutual transferability for mixed domination on strongly chordal graphs and cactus graphs</i> (paper 116)	Felix Joos, Jaehoon Kim, Daniela Kühn and Deryk Osthus. <i>A characterization of testable hypergraph properties</i> (paper 33)		Arash Haddadan, Alantha Newman and R. Ravi. <i>Cut-Covering Decompositions for Connectivity Problems</i> (paper 110)	

Tuesday morning

9:00 - 10:00	Plenary talk (room: Amphi 9): Zdeněk Dvořák : <i>Graph Minors without the Structure Theorem</i> . Chair: L. Esperet				
10:00 - 10:30	Coffee break				
	Room: Amphi 7 Chair: T. Huynh	Room: Amphi 8 Chair: S. Klein	Room: Amphi 9 Chair: É. Bonnet	Room: Amphi 10 Chair: B. Effantin	Room: Amphi 11
10:30 - 10:55	Valentin Gledel, Prosenjit Bose, Claire Pennarun and Sander Verdonschot. <i>Power domination on triangular grids</i> (paper 80)	Jesse Beisegel, Carolin Denkert, Ekkehard Köhler, Matjaž Krnc, Nevena Mitrović, Robert Scheffler and Martin Strehler. <i>On the End-Vertex Problem</i> (paper 102)	Joshua Erde and Ben Barber. <i>Isoperimetry in integer lattices</i> (paper 5)	Kathie Cameron, Shenwei Huang, Irena Penev and Vaidy Sivaraman. <i>The class of (P_7, C_4, C_5)-free graphs</i> (paper 28)	
10:55 - 11:20	Sebastian Johann, Sven Krumke and Manuel Streicher. <i>Simultaneous Dominating Sets for Spanning Tree Factorings</i> (paper 81)	Michał Dębski, Konstanty Junosza-Szaniawski, Zbigniew Lonc and Michał Tuczyński. <i>Perfect landmark sets in the ALT route planning algorithm</i> (paper 111)	Matthew Jenssen, Felix Joos and Will Perkins. <i>On kissing numbers in high dimensions</i> (paper 34)	Stephan Dominique Andres and Edwin Lock. <i>On Characterising and Recognising g_B-Perfect Graphs</i> (paper 29)	
11:20 - 11:45	Marthe Bonamy, Nicolas Bousquet, Tereza Klimosova and Paul Ouvrard. <i>The price of connectivity for domination</i> (paper 98)	Konstanty Junosza-Szaniawski, Patryk Mikos and Joanna Sokół. <i>Online coloring of intersection graphs of disks, polygons and other convex shapes</i> (paper 104)	Tamás Róbert Mezei. <i>A linear time $\frac{8}{3}$-approximation for r-star guards in simple orthogonal art galleries</i> (paper 83)	Frédéric Maffray and T. Karthick. <i>Square-free graphs with no six-vertex induced path</i> (paper 120)	
11:45 - 14:00	Lunch				

Tuesday afternoon

14:00 - 15:00	Plenary talk (room: Amphi 9): Maria Chudnovsky : <i>Trees and the Erdős-Hajnal conjecture</i> . Chair: A. Wagler				
	Room: Amphi 7 Chair: M. Kriesell	Room: Amphi 8 Chair: A. Lagoutte	Room: Amphi 9 Chair: B. Sinimeri	Room: Amphi 10 Chair: M. Bonamy	Room: Amphi 11 Chair: A. Newman
15:15 - 15:40	Aleksandr Omelchenko and Evgeniy Krasko. <i>Enumeration of Unsensed Orientable and Non-Orientable Maps</i> (paper 17)	Vaidy Sivaraman, Bart Litjens, Sven Polak and Bart Sevenster. <i>A characterization of graphs with Dilworth number at most 3</i> (paper 95)	Louis Debiasio and Allan Lo. <i>Spanning trees with few branch vertices</i> (paper 51)	Martín Matamala. <i>A Tutte's Perfect Matching Theorem for vertex colored graphs</i> (paper 50)	Tomoki Nakamigawa, Tatsuo Kato and Tadashi Sakuma. <i>Pebble Exchange on Graphs and Graph Automorphism</i> (paper 20)
15:40 - 16:05	Daniel Pinto. <i>Genus and duality index of a hypermap</i> (paper 56)	Michał Seweryn. <i>The dimension of posets with excluded minors in cover graphs</i> (paper 108)	Zealeem Yilma, Matjaz Krnc, Jean-Sébastien Sereni and Riste Skrekovski. <i>Maximally Centralized Bipartite Networks</i> (paper 124)	Marc Heinrich and Sylvain Gravier. <i>Online graph coloring with bichromatic exchanges</i> (paper 55)	Didier Caucal. <i>On Cayley graphs of algebraic structures</i> (paper 84)
16:05 - 16:30	Coffee break				
16:30 - 17:30	Open problems session. Chair: S. Thomassé				

Wednesday morning

9:00 - 10:00	Plenary talk (room: Amphi 9): László Babai : <i>From local information to global symmetry: The Graph Isomorphism Problem.</i> Chair: J. van den Heuvel				
10:00 - 10:30	Coffee break				
	Room: Amphi 7 Chair: P. Aboulker	Room: Amphi 8 Chair: É. Sopena	Room: Amphi 9 Chair: A. Wagler	Room: Amphi 10 Chair: M. Haddad	Room: Amphi 11 Chair: F. Maffray
10:30 - 10:55	Hong Liu, Oleg Pikhurko and Katherine Staden. <i>The minimum number of triangles in graphs of given order and size</i> (paper 11)	Felix Joos and Stefan Glock. <i>A rainbow blow-up lemma</i> (paper 12)	Adel Kazemi Piledaraq and Farshad Kazemnejad. <i>Total mixed domination number of a graph</i> (paper 10)	Johann Makowsky and Vsevolod Rakita. <i>On weakly distinguishing graph polynomials</i> (paper 123)	Michal Stern, Nili Guttman-Beck and Zeev Sorek. <i>Feasibility of the Clustered Spanning Tree Problem</i> (paper 19)
10:55 - 11:20	Nika Salia, Ervin Gyori, Abhishek Methuku, Casey Tompkins and Máté Vizer. <i>On the maximum size of connected hypergraphs without a path of given length</i> (paper 16)	Jan Goedgebeur. <i>On minimal triangle-free 6-chromatic graphs</i> (paper 13)	Somayeh Khalashi Ghezelahmad and Saieed Akbari. <i>Graphs whose size of all maximal 2-regular subgraphs are the same</i> (paper 43)	Samuel Fiorini, Tony Huynh, Gwenaél Joret and Carole Muller. <i>Excluded Minors for Embeddings of Metric Graphs in ℓ_∞^n-Spaces</i> (paper 112)	Ervin Gyori, Beka Ergemlidze, Abhishek Methuku and Nika Salia. <i>Graphs and 3-uniform linear hypergraphs with no 5-cycle</i> (paper 97)
11:20 - 11:45	Boris Bukh and Michael Tait. <i>Turan numbers of theta graphs</i> (paper 22)	Allan Lo and Nicolás Sanhueza Matamala. <i>An asymptotic bound for the strong chromatic number</i> (paper 30)	Kathie Cameron. <i>Cycles Containing All the Odd-Degree Vertices</i> (paper 85)	Henri Derycke. <i>An automaton describing left burnable configurations in the sandpile model on the ladder graph $Z \times P_H$</i> (paper 130)	Alberto Espuny Díaz, Felix Joos, Daniela Kühn and Deryk Osthus. <i>Edge correlations in random regular hypergraphs and applications to subgraph testing</i> (paper 62)
11:45 - 12:10	Antoine Dailly, Florent Foucaud and Adriana Hansberg. <i>A strengthening of the Murty-Simon Conjecture for diameter 2 critical graphs</i> (paper 23)	Nicolas Gastineau and Olivier Togni. <i>On S-packing edge-colorings of cubic graphs</i> (paper 35)	Léo Planche, Etienne Birmele, Fabien De Montgolfier and Laurent Viennot. <i>Decomposing a Graph into Shortest Paths with Bounded Eccentricity</i> (paper 128)	Wouter Cames van Batenburg, Ross J. Kang and François Pirot. <i>Strong cliques and forbidden cycles</i> (paper 41)	Fatma Kaci and Paul Dorbec. <i>Disjoint maximal independent sets in graphs and hypergraphs</i> (paper 64)
12:10 - 14:00	Lunch				
14:00 - 15:00	Seminar by László Babai : <i>Hidden irregularity vs. hidden symmetry: The emergence of the Johnson graphs.</i> Room: Amphi 9. Chair: N. Trotignon				
16:00 - 18:00	Social event : visit of Lyon				
19:00	Conference dinner at : <i>Brasserie Georges</i> Address: 30 Cours de Verdun Perrache, 69002 Lyon (near Perrache metro station)				

Thursday morning

9:00 - 10:00	Plenary talk (room: Amphi 9): Samuel Fiorini : <i>Graphs and extended formulations</i> . Chair: M. Kriesell				
10:00 - 10:30	Coffee break				
	Room: Amphi 7 Chair: J. Bensmail	Room: Amphi 8 Chair: N. Bousquet	Room: Amphi 9 Chair: O. Togni	Room: Amphi 10 Chair: D. Osthus	Room: Amphi 11 Chair: J. Chalopin
10:30 - 10:55	Christophe Picouleau and Alain Hertz. <i>Graceful difference labelings of disjoint directed cycles</i> (paper 45)	Christopher Cox and Joseph Briggs. <i>Inverting the Turán problem</i> (paper 25)	Ngoc Khang Le and Nicolas Trotignon. <i>Connected greedy colouring in claw-free graphs</i> (paper 76)	Rafael Teixeira de Araújo, Sulamita Klein and Rudini Sampaio. <i>FPT algorithms to recognize well covered graphs</i> (paper 49)	Thomas Bellitto, Christine Bachoc, Philippe Moustrou and Arnaud Pêcher. <i>Weighted independence ratio of geometric distance graphs</i> (paper 113)
10:55 - 11:20	Ilan Goldfeder and Joaquín Tey. <i>On conservative graphs and Skolem systems</i> (paper 74)	Louis Esperet, Ross Kang and Stéphan Thomassé. <i>On dense bipartite induced subgraphs</i> (paper 44)	Yair Caro, Adriana Hansberg and Amanda Montejano. <i>Balanceable graphs</i> (paper 78)	Pinar Heggeres, Davis Isac, Juho Lauri, Paloma de Lima and Erik Jan van Leeuwen. <i>Rainbow vertex coloring bipartite graphs and chordal graphs</i> (paper 86)	Dibyayan Chakraborty, Sandip Das, Srijit Mukherjee, Uma Kant Sahoo and Sagnik Sen. <i>Triangle-free projective-planar graphs with diameter two</i> (paper 127)
11:20 - 11:45	Rinovia Simanjuntak and I Wayan Palton Anuwiksa. <i>Distance Magic Labelings of Strongly Regular Graphs</i> (paper 136)	Ervin Győri, Nika Salia, Casey Tompkins and Oscar Zamora Luna. <i>The maximum number of P_l copies in P_k-free graphs</i> (paper 107)	Marthe Bonamy, Tom Kelly, Peter Nelson and Luke Postle. <i>Bounding χ by a fraction of Δ for graphs without large cliques</i> (paper 92)	Moritz Beck, Johannes Blum, Myroslav Kryven, Andre Löffler and Johannes Zink. <i>Planar Steiner Orientation is NP-complete</i> (paper 122)	Victor Chepoi, Arnaud Labourel and Sébastien Ratel. <i>On density of subgraphs of Cartesian products</i> (paper 135)
11:45 - 14:00	Lunch				

Thursday afternoon

14:00 - 15:00	Plenary talk (room: Amphi 9): Daniel Lokshtanov : <i>The number of things in things</i> . Chair: G. Joret				
	Room: Amphi 7 Chair: V. Limouzy	Room: Amphi 8 Chair: I. Penev	Room: Amphi 9 Chair: R. Kang	Room: Amphi 10 Chair: K. Cameron	Room: Amphi 11 Chair: E. Duchêne
15:15 - 15:40	Matias Pavez Signe, Maya Stein and Guido Besomi. <i>Embedding trees of bounded degree in dense graphs</i> (paper 66)	Kitti Varga, Gyula Y. Katona and István Kovács. <i>Recognizing minimally tough graphs</i> (paper 68)	Sungsik Kang and Boram Park. <i>List strong edge coloring of a (2,3)-bipartite graph</i> (paper 75)	François Dross and Pascal Ochem. <i>Vertex partitions of (C_3, C_4, C_6)-free planar graphs</i> (paper 63)	P.-E. Anglès d'Auriac, F. Maisonnette, V. Maisonnette, E. Preissmann and M. Preissmann. <i>On more variants of the Majority Problem</i> (paper 114)
15:40 - 16:05	D. Korándi, R. Lang, S. Letzter and A. Pokrovskiy. <i>Monochromatic cycle partitioning graphs of large minimum degree</i> (paper 99)	Zdenek Ryjacek, Petr Vrana and Liming Xiong. <i>Hamiltonian properties of 3-connected (claw, hourglass)-free graphs</i> (paper 100)	Guilherme de Castro Mendes Gomes, Carlos Vinicius Lima and Vinicius F. Dos Santos. <i>Equitable Coloring of subclasses of Chordal Graphs</i> (paper 91)	S. Rodrigues Alves, F. Couto, L. Faria, S. Gravier, S. Klein and U. Dos Santos Souza. <i>Structural characterizations for polynomially-time recognizable (r, l)-well covered graphs</i> . (paper 89)	Julien Bensmail, Dorian Mazauric, Fionn Mc Inerney, Nicolas Nisse and Stéphane Pérennes. <i>Sequential Metric Dimension</i> (paper 7)
16:05 - 16:30	Coffee break				
	Room: Amphi 7 Chair: P. Dorbec	Room: Amphi 8 Chair: D. Gonçalves	Room: Amphi 9 Chair: P. Valicov	Room: Amphi 10 Chair: H. Kheddouci	Room: Amphi 11
16:30 - 16:55	Cristina Bazgan, Janka Chlebikova, Clément Dallard and Thomas Pontoizeau. <i>Family of graphs without 2-community structure</i> (paper 90)	N. Bowler, J. Erde, P. Heinig, F. Lehner and M. Pitz. <i>Recent developments in reconstruction of infinite graphs</i> (paper 3)	Narda Cordero-Michel and Hortensia Galeana-Sánchez. <i>Four bounds for the dichromatic number of a digraph</i> (paper 93)	Dániel Soltész and István Kovács. <i>Cycle creating paths</i> (paper 88)	
16:55 - 17:20	Mikhail Isaev, Jane Gao and Brendan McKay. <i>The sandwich conjecture of random regular graphs and more</i> (paper 119)	P. L. Erdos, T. R. Mezei, I. Miklos and D. Soltész. <i>The swap Markov chain on bipartite degree sequences with bounded maximum degree is rapidly mixing</i> (paper 118)	Oscar Zamora Luna, Nika Salia and Casey Tompkins. <i>An Erdős-Gallai type theorem for vertex colored graphs</i> (paper 94)	Suil O. <i>Algebraic connectivity of multigraphs</i> (paper 27)	
17:20 - 17:45	C. Duffy and J. Janssen. <i>Infinite n-ordered Graphs and Independent Distinguishing Sets</i> (paper 57)	Xiaoyun Lu. <i>On Min-max Pair in Tournaments</i> (paper 6)	G. Benítez-Bobadilla, H. Galeana-Sánchez and C. Hernández-Cruz. <i>Color Patterns by Dynamic H-walks</i> (paper 67)	A. El Sahili and Z. G. Hanna. <i>About the Number of Oriented Hamiltonian Paths and Cycles in Tournaments</i> (paper 137)	

Friday

9:00 - 10:00	Plenary talk (room: Amphi 9): Claire Mathieu : <i>Hierarchical Clustering: Objective Functions and Algorithms</i> . Chair: S. Thomassé				
10:00 - 10:30	Coffee break				
	Room: Amphi 7 Chair: H. Hocquard	Room: Amphi 8 Chair: A. Raspaud	Room: Amphi 9 Chair: L. Beaudou	Room: Amphi 10 Chair: É. Tannier	Room: Amphi 11
10:30 - 10:55	Kasper Lyngsie and Martin Merker. <i>Spanning trees without adjacent vertices of degree 2</i> (paper 31)	Mária Maceková, František Kardoš, Martina Mockovčiaková, Éric Sopena and Roman Soták. <i>Incidence coloring of some special classes of graphs</i> (paper 101)	Zakir Deniz, Esther Galby and Bernard Ries. <i>On contact graphs of paths on a grid</i> (paper 26)	Szymon Dudycz and Katarzyna Paluch. <i>Optimal General Matchings</i> (paper 131)	
10:55 - 11:20	Sabrina Bouchouika, Isma Bouchemakh and Éric Sopena. <i>On the upper broadcast domination number of caterpillars</i> (paper 24)	Ararat Harutyunyan. <i>Coloring and list coloring digraphs</i> (paper 109)	Borut Lužar, Martina Mockovčiaková and Roman Soták. <i>Semistrong matching and semistrong edge-coloring</i> (paper 39)	Padraig Condon, Jaehoon Kim, Daniela Kühn and Deryk Osthus. <i>A bandwidth theorem for approximate decompositions</i> (paper 46)	
11:20 - 11:45	Alice Joffard, Guillaume Bagan and Hamamache Kheddouci. <i>Eternal domination on digraphs and orientations of graphs</i> (paper 48)	Michelle Delcourt, Guillem Perarnau and Luke Postle. <i>Random colorings of bounded degree graphs</i> (paper 125)	Feodor Dragan, Michel Habib and Lalla Mouatadid. <i>Graph searches and geometric convexities in graphs</i> (paper 87)	Ivan Sudborough, Sergey Bereg, Zevi Miller, Luis Mojica and Linda Morales. <i>Maximizing Hamming Distance in Contraction of Permutation Arrays</i> (paper 14)	
11:45 - 14:00	Lunch				
14:00 - 15:00	Plenary talk (room: Amphi 9): Daniel Král : <i>Analytic methods in graph theory</i> . Chair: H. Kheddouci				
15:00	End of ICGT 2018				