

Wednesday, November 21 - Morning

08:45 Opening

09:00 Plenary talk
Dieter Rautenbach
The Cycle Spectrum of Graphs

10:00 Coffee break

Room 050 (amphitheatre)

10:30 Marthe Bonamy, Nicolas Bousquet and Hervé Hocquard
Adjacent vertex-distinguishing edge coloring of graphs with bounded maximum degree

10:55 Mirko Horňák, Rafał Kalinowski, Mariusz Meszka and Mariusz Woźniak
Minimum number of palettes in edge colorings

11:20 Louis Esperet and Aline Parreau
Acyclic edge-coloring of graphs using entropy compression

11:45 Hervé Hocquard, Mickaël Montassier, André Raspaud and Petru Valicov
A note on strong edge-colouring

Room 178

10:30 Sven Simonsen, Jørgen Bang-Jensen and Alessandro Maddaloni
Finding Quasi-Hamiltonian Paths and Cycles in Semicomplete Multipartite Digraphs

10:55 Hortensia Galeana Sánchez and Ingrid Chantal Torres-Ramos
 γ -H-cycles in H-edge coloured digraphs.

11:20 František Kardoš
Almost all fullerene graphs are almost Hamiltonian

11:45 Sylvain Gravier and Elise Vandomme
Constant 2-labelling of weighted cycles

12:10 Lunch

Wednesday, November 21 - Afternoon

Room 050 (amphitheatre)

- 14:00 Arnfried Kemnitz, Anja Pruchnewski and Margit Voigt
 (r,s) -Fractional (IPO, IQQ) -Total Colorings of Graphs
- 14:25 Marthe Bonamy, Benjamin Lévêque and Alexandre Pinlou
Graphs with $\text{mad} < 3$ and $\Delta \geq 17$ are list 2-distance $(\Delta + 2)$ -colorable
- 14:50 Stanislav Jendrol'
Cyclic words and vertex colourings of plane graphs
- 15:15 Ararat Harutyunyan and Bojan Mohar
Colorings and acyclic sets in planar graphs and digraphs

Room 178

- 14:00 Ewa Drgas-Burchardt
On stable matchings in the Gale-Shapley model
- 14:25 Guillem Perarnau and Giorgis Petridis
Matchings in Random Biregular Bipartite Graphs
- 14:50 Giuseppe Mazzuoccolo
How many m -matchings are necessary to cover the edge-set of a graph?
- 15:15 Siham Bekkai
Generalizing $[2, b]$ -factors

15:40 Coffee break

Room 050 (amphitheatre)

- 16:00 Bruno Courcelle
The atomic decomposition of strongly connected graphs
- 16:25 Rommel Barbosa, Dieter Rautenbach and Márcia Santana
On Graphs with Maximal Independent Sets of Few Sizes, Minimum Degree at least 2, and Girth at least 7
- 16:50 Robert Ganian, Petr Hliněný, Jaroslav Nešetřil, Jan Obdržálek, Patrice Ossona De Mendez and Reshma Ramadurai
Shrub depth, m -partite cographs and MSO_1
- 17:15 Christophe Crespelle and Philippe Gambette
(Nearly-)Tight Bounds on the Linearity and Contiguity of Cographs

Room 178

- 16:00 Robert F. Bailey, José Cáceres, Delia Garijo, Antonio González, Alberto Márquez, Karen Meagher and María Luz Puertas
Resolving sets for Johnson and Kneser graphs
- 16:25 César Hernández Cruz and Pavol Hell
On the complexity of the 3 -kernel problem in some classes of digraphs
- 16:50 Mourad Baïou, Laurent Beaudou and Vincent Limouzy
On some facility location problem
- 17:15 Nicolas Gastineau and Sébastien Tavenas
Complexity of Generalized Distance Coloring Problem

19:00 Cheese and wine

Thursday, November 22 - Morning

09:00 Plenary talk
Paul Seymour
Graphs, Tournaments, Colouring and Containment

10:00 Coffee break

Room 050 (amphitheatre)

10:30 Maria Chudnovsky and Paul Seymour
Excluding paths and antipaths

10:55 Pierre Aboulker
Excluding 4-wheels

11:20 Pierre Aboulker and Nicolas Bousquet
Graphs with no cycle with a fixed number of chords

11:45 Sergei Evdokimov
On automorphism groups of circulant graphs

Room 178

10:30 Houcine Boumediene Merouane and Mustapha Chellali
Dominator chromatic number of a tree

10:55 Ville Junnila and Tero Laihonen
Identification of sets of edges using factors

11:20 Martin Knor
Efficient domination in vertex-transitive cubic graphs

11:45 Nicolas Lichiardopol
Strong connectivity and directed triangles in oriented graphs. Partial results on a particular case of the Caccetta-Haggkvist conjecture

12:10 Lunch

Thursday, November 22 - Afternoon

14:00 Plenary talk
Richard Nowakowski
Playing for Time: 1101110 years of Combinatorial Game Theory

15:00 Coffee break

Room 050 (amphitheatre)

15:20 Eckhard Steffen
Balanced valuations and circular flows

15:45 Arnfried Kemnitz and Massimiliano Marangio
 d -Strong Total Colorings of Graphs

16:10 Roman Čada, Jan Ekstein, Přemysl Holub and Olivier Togni
Radio Labelings of Distance Graphs

16:35 Chun-Hung Liu and Gexin Yu
Linear colorings of subcubic graphs

Room 178

15:20 G.L. Chia, W. Hemakul and S. Singhun
Graphs with Cyclomatic Number Three having Panconnected Square

15:45 Ingo Schiermeyer
Hunting for rainbow bulls and diamonds

16:10 Rui Carpentier, Henry Liu, Manuel Silva and Teresa Sousa
Rainbow Connection in Hypergraphs

16:35 Cyril Gavoille and Pierre Halftermeyer
Connectivity Labeling Scheme for Graphs on Surface

19:00 Town Hall event

Friday, November 23 - Morning

09:00 Plenary talk
Jan Kratochvíl
Extending partial representations of graphs

10:00 Coffee break

Room 050 (amphitheatre)

10:30 J.A. Telle and Y. Villanger
FPT algorithms for domination in biclique-free graphs

10:55 Jakub Przybyło
Proper edge colourings distinguishing colour pallets of the neighbours - algorithms enhanced by Combinatorial Nullstellensatz

11:20 Pascal Berthomé, Tom Bouvier, Frédéric Mazoit, Nicolas Nisse and Ronan Soares
A Unified FPT Algorithm for Width of Partition Functions

11:45 Derek G. Corneil, Jérémie Dussart and Michel Habib
Fixed point properties for Lexicographic Breadth First Search on cocomparability graphs

Room 178

10:30 Pierre Aboulker, Zhentao Li and Stéphan Thomassé
Clock-free graphs and k-clock-free graphs of high girth

10:55 Stephan Dominique Andres and Winfried Hochstättler
Generalizing the Strong Perfect Graph Theorem to digraphs

11:20 Katarzyna Jesse-Józefczyk and Elżbieta Sidorowicz
Claw-free cubic graphs and their global secure sets

11:45 Julio Araujo, Grégory Morel, Leonardo Sampaio, Ronan Soares and Valentin Weber
Hull number: $\{P_5, K_3\}$ -free graphs and reduction rules

12:10 Lunch

Friday, November 23 - Afternoon

Room 050 (amphitheatre)

- 14:00 Joergen Bang-Jensen and Alessandro Maddaloni
Arc-disjoint paths in decomposable digraphs
- 14:25 Sagnik Sen
Largest planar cliques
- 14:50 Maria Del Rocío Sánchez López and Hortensia Galeana Sánchez
H-kernels in infinite digraphs
- 15:15 Mélodie Lapointe, Alexandre Blondin Massé, Philippe Galinier, Mélanie Lord and Odile Marcotte
Enumerating minimum feedback vertex sets in directed graphs

Room 178

- 14:00 Pierre Aboulker, Marko Radovanović, Nicolas Trotignon, Théophile Trunck and Kristina Vušković
Linear balanceable and subcubic balanceable graphs
- 14:25 José Cáceres, María Morales, Auxiliadora Moreno and María Luz Puertas
Supergeodetic sets in graphs
- 14:50 Mirka Miller, Joe Ryan, Zdeněk Ryjáček, Jakub Teska and Petr Vrána
Closures and stability of hereditary classes of graphs
- 15:15 Encarnación Abajo Casado, Rocío Moreno Casablanca, Ana Diánez and Pedro García Vázquez
On average fault-tolerance in product graphs

15:40 Coffee break

Room 050 (amphitheatre)

- 16:00 S. Aparna Lakshmanan, Csilla Bujtás and Zsolt Tuza
Generalized line graphs: Cartesian products and complexity of recognition
- 16:25 Wilfried Imrich
Symmetry breaking in graphs
- 16:50 Arthur Hoffmann-Ostenhof
Structures in Cubic Graphs

Room 178

- 16:00 Boris Albar and Daniel Gonçalves
Stress freeness of K_d minor free graphs
- 16:25 Clément Charpentier
Minmax Degree of planar graphs without 4-cycles and i -cycles
- 16:50 Reza Naserasr
Mapping planar graphs into projective cubes

20:00 Banquet

Saturday, November 24 - Morning

09:00 Plenary talk
Frédéric Havet
Finding a subdivision of a digraph

10:00 Coffee break

Room 050 (amphitheatre)

10:30 Robert Šámal
Lovász theta function and products of graphs

10:55 Chun-Chung Hsieh, Louis Kauffman and Michael Tsau
Knot theory and Feynman graphs

11:20 Christine Bachoc, Arnaud Pêcher and Alain Thiéry
On the theta number of circular-cliques and some consequences

Room 178

10:30 Jiří Fiala, Jan Hubička and Yangjing Long
Constrained Homomorphism Orders

10:55 Florent Foucaud and Reza Naserasr
Bounding K_4 -minor-free graphs in the homomorphism order

11:20 Jan Hubička, Juergen Jost, Yangjing Long, Peter F. Stadler and Ling Yang
Relation between Graphs

11:45 End of the workshop
