

Program of WG 2017

Small changes are still possible.

Tuesday June 20, 2017

- 14.00 – 18.00 Arrival: shuttle service
- 18.30 – 21.00 Welcome reception and light food

Wednesday June 21, 2017

- **7.00 Start breakfast**
- **8.40 – 8.50 Welcome**
- 8.50 – 9.40 Invited Lecture: Petra Mutzel
Crossing minimization in graph drawing

SESSION 1. CHAIR: HANS BODLAENDER

- 9.40 – 10.05 O-Joung Kwon, Michał Pilipczuk and Sebastian Siebertz:
On low rank-width colorings
- 10.05 – 10.30 Konrad Dabrowski, Vadim Lozin and Daniël Paulusma:
Clique-width and well-quasi ordering of triangle-free graph classes
- **10.30 – 11.00 Coffee break**

SESSION 2. CHAIR: HAIKO MÜLLER

- 11.00 – 11.25 Petr Golovach, Pinar Heggenes, Dieter Kratsch, Paloma Lima and Daniel Paulusma: Algorithms for outerplanar graph roots and graph roots of pathwidth at most 2
- 11.25 – 11.50 Guillaume Ducoffe: Finding cut-vertices in the square roots of a graph
- 11.50 – 12.15 Gregor Hultenschmidt, Philipp Kindermann, Wouter Meulemans and André Schulz: Drawing planar graphs with few geometric primitives
- **12.15 Lunch**

SESSION 3. CHAIR: PETR GOLOVACH

- 13.45 – 14.10 Patrizio Angelini, Michael Bekos, Franz Brandenburg, Giordano Da Lozzo, Giuseppe Di Battista, Walter Didimo, Giuseppe Liotta, Fabrizio Montecchiani and Ignaz Rutter: On the relationship between k -planar and k -quasi planar graphs

- 14.10 – 14.35 Jean Cardinal, Stefan Felsner, Tillmann Miltzow, Casey Tompkins and Birgit Vogtenhuber: Intersection graphs of rays and grounded segments
- 14.35 – 15.00 Hendrik Schrezenmaier: Homothetic triangle contact representations
- **15.00 – 15.30 Coffee Break**

SESSION 4. CHAIR: PETRA MUTZEL

- 15.30 – 15.55 Julien Baste, Dieter Rautenbach and Ignasi Sau: Uniquely restricted matchings and edge colorings
- 15.55 – 16.20 Maria Chudnovsky, Oliver Schaudt, Sophie Spirkl, Maya Stein and Mingxian Zhong: Approximately coloring graphs without long induced paths
- 16.20 – 16.35 Remy Belmonte, Michael Lampis and Valia Mitsou: Defective coloring on classes of perfect graphs
- 16.45 – 17.10 Oliver Schaudt and Fabian Senger: The parameterized complexity of the equidomination problem
- **18.30 Dinner**
- **20.00 Meeting of Steering and Program Committees**
- **Free evening for participants**

Thursday June 22, 2017

- **7.00 Start breakfast**
- 8.30 – 9.20 Invited Lecture: Remco van der Hofstad
Counting graphs and null models of complex networks: the configuration model and some extensions

SESSION 5. CHAIR: EKKEHARD KÖHLER

- 9.20 – 9.45 Yijia Chen, Martin Grohe and Bingkai Lin: The hardness of embedding grids and walls
- 9.45 – 10.10 Till Fluschnik, Meike Hatzel, Steffen Härtlein, Hendrik Molter and Henning Seidler: The minimum shared edges problem on grid-like graphs
- **10.10 – 10.40 Coffee break**

SESSION 6. CHAIR: MICHAL PILIPCZUK

- 10.40 – 11.05 Julien Baste, Marc Noy and Ignasi Sau: On the number of labeled graphs of bounded treewidth
- 11.05 – 11.30 Akanksha Agrawal, Daniel Lokshtanov and Amer Mouawad: Critical node cut parameterized by treewidth and solution size is $W[1]$ -hard
- 11.30 – 11.55 Dusan Knop, Martin Koutecky, Tomas Masarik and Tomas Toufar: simplified algorithmic metatheorems beyond MSO: treewidth and neighborhood diversity
- 11.55 – 12.20 Agnes Cseh and Jannik Matuschke: New and simple algorithms for stable flow problems
- **12.20 Lunch**

SESSION 7. CHAIR: ERIK JAN VAN LEEUWEN

- 13.30 – 13.55 Vadim Lozin, Dmitriy Malyshev, Raffaele Mosca and Victor Zamaraev: New results on weighted independent domination
- 13.55 – 14.20 Patrizio Angelini and Michael Bekos: Hierarchical partial planarity
- 14.20 – 14.55 Serge Gaspers and Shenwei Huang: Linearly χ -bounding (P_6, C_4) -free graphs
- 14.55 – 15.20 Manuel Aprile, Yuri Faenza, Samuel Fiorini, Tony Huynh and Marco Macchia: Extension complexity of stable set polytopes of bipartite graphs
- **15.45 – 18.00 Bicycle trip**
- **18.30 Conference meal (bbq)**
Award ceremony for the best paper and the best student paper

Friday June 23, 2017

- **7.00 Start breakfast**
- 8.30 – 9.20 Invited Lecture: Fedor Fomin
Minimal separators and their algorithmic applications

SESSION 8. CHAIR: BART JANSEN

- 9.20 – 9.45 Vicente Acuña, Roberto Grossi, Giuseppe Italiano, Leandro De Lima, Romeo Rizzi, Gustavo Sacomoto, Marie-France Sagot and Blerina Sinimeri: On bubble generators in directed graphs
- 9.45 – 10.10 Ademir Hujdurovic, Edin Husic, Martin Milanic, Romeo Rizzi and Alexandru Tomescu: The minimum conflict-free row split problem revisited
- **10.10 – 10.40 Coffee break**

SESSION 9. CHAIR: FEDOR FOMIN

- 10.40 – 11.05 Tomasz Krawczyk and Bartosz Walczak: Extending partial representations of trapezoid graphs
- 11.05 – 11.30 Steven Chaplick, Martin Topfer, Jan Vobornik and Peter Zeman: On H -topological intersection graphs
- 11.30 – 11.55 Pallavi Jain, Jayakrishnan M, Fahad Panolan and Abhishek Sahu: Mixed dominating set: A parameterized perspective
- 11.55 – 12.20 Nicolas Bousquet and Marc Heinrich: Computing maximum cliques in B-EPG graphs
- **12.20 Lunch**

SESSION 10. CHAIR: DANIEL PAULUSMA

- 13.30 – 13.55 Manuel Lafond: On strongly chordal graphs that are not leaf powers
- 13.55 – 14.20 Nicolas Bousquet and Marthe Bonamy: Token sliding on chordal graphs
- 14.20 – 14.55 Petr Golovach, Dieter Kratsch, Mathieu Liedloff and Mohamed Yosri Sayadi: Enumeration and maximum number of maximal irredundant sets for chordal graphs
- **15.15 Shuttle service to Eindhoven**