GROW 2022 - PROGRAM

Monday, 19. 9.

08:00 – 09:00 Registration

09:15 – 09:30 **Opening remarks**

09:30 – 10:20 Chair: M. Habib

Keynote talk

Marthe Bonamy: *One graph to rule them all: forbidden structures and universal graphs*

10:30 – 11:00 **Coffee break**

11:00 – 11:50 Chair: S. Szeider

Sebastian Wiederrecht: *Killing a Vortex*

Robert Scheffler: *Semi-Proper Interval Graphs*

Stefan Lendl: *On Structural Parameterizations of Continuous Facility…*

12:15 – 14:15 **Lunch break**

14:15 – 15:05 Chair: M. Krnc

Peter Rossmanith: *Evaluating Restricted First-Order Counting Properties on Nowhere Dense…*

Chinh T. Hoang: *Critical (P_3+ℓ P_1)-free and critical (gem, co-gem)-free graphs*

Vadim Lozin: *Graph parameters, implicit representations and factorial properties*

15:30 – 15:55 **Coffee break**

16:00 – 16:50 Chair: J. Kratochvíl

Open problem session

17:30 – 19:00 *Rooms available for discussions until 20:00*

Tuesday, 20. 9.

08:00 – 09:00 *Rooms available for discussions*

09:00 – 09:15 Registration

09:15 – 09:30 Announcements

09:30 – 10:20 Chair: S. Oum

Keynote talk

Bart M. P. Jansen: *Search-Space Reduction Beyond Kernelization*

10:30 – 11:00 **Coffee break**

11:00 – 11:50 Chair: R. Ganian

Jesse Beisegel: *Characterizing Graph Classes with Convexity*

Meike Hatzel: *Generating Strongly 2-Connected Digraphs*

Philipp K. Krause: *Constant-time connectivity tests*

12:15 – 19:00 **Lunch break**

Hike
from Črni Kal to Socerb
meet in front of FHŠ at 14:15,
bus departure at 14:30 from
Potniški terminal

Wednesday, 21. 9.

08:00 – 09:00 *Rooms available for discussions*

09:00 – 09:15 Registration

09:15 – 09:30 Announcements

09:30 – 10:20 Chair: E. Köhler

Jan Bok: *Hardness constructions for graph covering problems with semi-edges*

Jan Kratochvíl: *Computational complexity of the list version of graphs covers*

Group photo at Tito square

10:30 – 11:00 **Coffee break**

11:00 – 11:50 Chair: Y. Uno

Gyula Y. Katona: *Polynomial algorithm to compute the toughness of graphs with bounded treewidth*

Giannos Stamoulis: *Model-Checking for First-Order Logic with Disjoint Paths…*

Nikola Jedličková: *List homomorphism problem for signed graphs*

12:15 – 14:15 **Lunch break**

14:15 – 15:05 Chair: K. Dabrowski

Special session for Lozin

Nicolas Trotignon: *From even-hole-free graphs to treewidth*

Andrea Munaro: *Structural and algorithmic results for mim-width and sim-width*

Viktor Zamaraev: *Implicit Representations of Graphs and Randomized Communication*

Stefan Szeider: *From Twin-Width to Propositional Logic and Back*

15:30 – 16:25 **Coffee break**

Next GROW announcement

16:30 – 16:50 Chair: V. Lozin

Open problem session

17:30 – 19:00 *Rooms available for discussions*

Conference dinner
meet in front of FHŠ at 18:50
(Savor, local restaurant)

Thursday, 22. 9.

08:00 – 09:00 *Rooms available for discussions*

09:00 – 09:15 Registration

09:15 – 09:30 Announcements

09:30 – 10:20 Chair: S. Cabello

Keynote talk

Bojan Mohar: *On the structure of crossing-critical graphs*

10:30 – 11:00 **Coffee break**

11:00 – 11:50 Chair: N. Trotignon

Evangelos Protopapas: *Tree-layout based graph classes: the case of proper chordal graphs*

Tuukka Korhonen: *Computing Tree Decompositions with Small…*

Michel Habib: *LexCycle on Modules*

12:15 – 14:15 **Lunch break**

14:15 – 15:05 Chair: A.Proskurowski

Carolina Lucía Gonzalez: *Locally checkable problems parameterized by treewidth, clique-width and mim-width*

Christophe Paul: *The mixed search game against an agile and visible fugitive is monotone*

Nina Klobas: *The complexity of computing optimum labelings for temporal connectivity*

15:30 – 15:55 **Coffee break**

16:00 – 16:50 Chair: G. Katona

Manoj Belavadi: *Reconfiguration of Vertex Colouring and Forbidden Induced Subgraphs*

Jungho Ahn: *Bounds for the twin-width of graphs*

16:50 – 19:00 **Closing remarks**

Rooms available for discussions until 20:00