60th Czech-Slovak Graph Theory Conference

Hluboká nad Vltavou, May 26-30, 2025

Monday 26

12:30 Lunch

14:30 Opening

    14:35 Jan Kratochvíl: *Distance-constrained labeling and Hamiltonicity of dense graphs (invited lecture)*

    15:30 Michal Dvořák: *Complexity of target set selection in simple geometric networks*

15:55 Coffeebreak

    16:20 Zdeněk Ryjáček: *A closure concept for 2-Hamiltonicity in claw-free graphs*

    16:45 Petr Vrána: *Every 4-connected {claw,hourglass}-free graph is 2-Hamiltonian*

    17:10 Ondřej Suchý: *On kernels for d-path vertex cover*

    17:35 Pavol Hell: *Homomorphisms of signed graphs*

18:30 Dinner, welcome party

Tuesday 27

9:00 **Jozef Širáň:** *Graphs, groups and surfaces coming together: Regular embeddings of complete multigraphs (invited lecture)*

9:55 **Hoi Ping Luk:** *Classification of edge-to-edge monohedral tilings of the sphere*

10:20 Coffeebreak

10:50 **Edita Máčajová:** *Short cycle covers and the colouring defect of a cubic graph*

11:15 **Martin Škoviera:** *Are there any permutation snarks of order 6 (mod 8)?*

11:40 **Roman Nedela:** *Berge's conjecture for generalised cycle permutation graphs*

12:30 Lunch

14:30 **Igor Fabrici:** *Colorings of plane graphs with unique colors (invited lecture)*

15:25 **Diana Švecová:** *Improper vertex coloring*

15:50 Coffeebreak

16:20 **Alfréd Onderko:** *Homogeneous coloring*

16:45 **František Kardoš:** *An algorithmic Vizing's theorem: toward efficient edge-coloring sampling with an optimal number of colors*

17:10 **Matúš Matok:** *(Mostly) total colouring of (sub)cubic Halin graphs*

17:35 **Jan Jedelský:** *First-order transduction hierarchy among sparse graph classes*

18:30 Dinner

20:00 Quiz

Wednesday 28

9:00 **Geňa Hahn:** *Automorphisms of the lexicographic product of structures (invited lecture)*

9:55 **Štefan Gyürki:** *Symmetric directed strongly regular graphs*

10:20 **Coffeebreak**

10:50 **Soňa Pavlíková:** *Signability and spectral indices of Moore-Penrose inverses of graphs*

11:15 **Pavol Jánoš:** *A comparison of two group-based graph constructions*

11:40 **Marek Filakovský:** *Hom complexes and homotopy of graphs*

12:30 **Lunch**

14:30 **Excursion, trip**

Excursion to Castle Hluboká, walk in the castle garden

or *Trip along the Vltava river*

18:30 **Dinner**

Thursday 29

9:00 **Mykhaylo Tyomkyn:** *Weak saturation in graphs and hypergraphs (invited lecture)*

9:55 **Gaurav Kucheriya:** *Turán-type problems and the abstract chromatic number*

10:20 **Coffeebreak**

10:50 **Yifan Zhang:** *Covering of a complete graphs by K_3, K_4 and K_5*

11:15 **Dalibor Fronček:** *G-designs for some small graphs*

11:40 **Petr Kovář:** *Difference distance magic oriented graphs*

12:30 Lunch

    14:30 **Jozef Rajník:** *Cyclic edge-connectivity of graphs (invited lecture)*

    15:25 **Roman Soták:** *Degree-balanced decompositions of cubic graphs*

15:50 Coffeebreak

    16:20 **Jakub Balabán:** *Matroid tree-depth*

    16:45 **Karolína Hylasová:** *Hypertree shrinking avoiding low degree vertices*

    17:10 **Jan Pokorný:** *Practical approach to 2-Euclidean preferences*

    17:35 **Šimon Schierreich:** *Equitable connected partition and structural parameters revisited: N-fold beats Lenstra*

18:30 Dinner, Farewell party

Friday 30

    9:00 *Vašek Chvátal: Discrete mathematical charms of Paul Erdős (invited lecture)*

    9:55 **Martin Knor:** Subpath number of the graph

10:20 Coffeebreak

    10:50 **Jan Sedlák:** *Pass the buck and resistance distance*

    11:15 **Martin Kopřiva:** *Math hidden behind the Chessboard*

    11:40 **Tomáš Kaiser:** *Critical subgraphs of shift graphs*

12:15 Lunch