

The 5th Slovenian International Conference on Graph Theory

Bled, Slovenia, June 22–27, 2003

PROGRAM

Sunday, June 22

- 14:15 – 14:30 **Opening**
- 14:30 – 14:50 *S. Klavžar*: Square-free colorings of graphs
- 14:55 – 15:15 *B. Brešar*: Cubic inflation, mirror graphs, Platonic graphs,
and partial cubes
- 15:30 – 15:50 *W. Imrich*: Cartesian products of graphs
- 15:55 – 16:15 *R. Häggkvist*: Bootstrapping theorems by Petersen, Baebler,
Belck and Gallai
- 16:20 – 16:45 **Coffee break**
- 16:45 – 17:35 *M. Muzychuk*: On isomorphism problem for Cayley graphs

Monday, June 23

9:00 – 9:50 *C. Praeger*: Homogeneous factorisations of graphs and digraphs

10:00 – 10:50 *J. Širáň*: Classification of regular maps of negative prime Euler characteristic

11:00 – 11:30 **Coffee break**

Session 1

11:30 – 11:50 *D. Marušič*: Semiregular elements in 2-closed groups of square-free degree

12:00 – 12:20 *R. Jajcay*: Arithmetic conditions for vertex-transitivity of graphs

12:30 – 12:50 *M. Boben*: Irreducible configurations and graphs

Session 2

11:30 – 11:50 *J. Huang*: The structure of bi-arc graphs

12:00 – 12:20 *H.-J. Lai*: Hamiltonian claw-free graphs

12:30 – 12:50 *N. López*: Structural properties of eccentric digraphs

13:00 – 15:00 **Lunch time**

Session 1

15:00 – 15:20 *M. Kriesell*: Contracting locally connected graphs of prescribed vertex connectivity

15:30 – 15:50 *S. Bessy*: Spanning a strong digraph by α circuits: A proof of Gallai's conjecture

16:00 – 16:20 *O. Hudry*: Extremal values for the codes identifying vertices in graphs

Session 2

15:00 – 15:20 *A. Jurišić*: TBA

15:30 – 15:50 *Š. Miklavič*: An equitable partition for a Q -polynomial kite-free distance-regular graph

16:00 – 16:20 *E. van Dam*: Combinatorial designs with two singular values

16:30 – 17:00 **Coffee break**

Session 1

17:00 – 17:20 *T. Biyikoglu*: The rank of a cograph

17:30 – 17:50 *H. Bielak*: Ramsey and 2-local Ramsey numbers for some graphs

18:00 – 18:20 *J. Moncel*: The pentomino exclusion problem and generalization

18:30 – 18:50 *A. Vietri*: Arc-coloring of directed hypergraphs and chromatic number of walls

Session 2

17:00 – 17:20 *P. Šparl*: Homomorphisms of hexagonal graphs to odd cycles

17:30 – 17:50 *A. Orbančić*: Blanuša double

18:00 – 18:20 *A. Žitnik*: Series parallel extensions of plane graphs to dual-eulerian graphs

18:30 – 18:50 *I. Dukanović*: SDP heuristics for graph coloring

Tuesday, June 24

- 9:00 – 9:50 *P. Cameron*: Permutations and codes: polynomials, bases, and covering radius
- 10:00 – 10:50 *B. Servatius*: Combinatorial pointed pseudo-triangulations
- 11:00 – 11:30 **Coffee break**
- Session 1**
- 11:30 – 11:50 *C. P. Bonnington*: Toroidal triangulations are geometric
- 12:00 – 12:20 *A. Breda d’Azevedo*: Non-orientable regular hypermaps with few faces
- 12:30 – 12:50 *Y. S. Kwon*: New regular embeddings of n -cubes Q_n
- Session 2**
- 11:30 – 11:50 *B. Zmazek*: Dominating graph bundles
- 12:00 – 12:20 *A. Vesel*: On resonance graphs of catacondensed hexagonal graphs: structure, coding, and hamilton path algorithm
- 12:30 – 12:50 *I. Peterin*: Fast recognition of subclasses of almost-median graphs
- 13:00 – 15:00 **Lunch time**
- 15:00 – 15:40 *M. E. Watkins*: Growth in Bilinski diagrams
- Session 1**
- 15:45 – 16:05 *M. Klin*: A census of spreads in small $GQ(s, t)$ graphs and corresponding antipodal distance regular graphs of diameter 3
- Session 2**
- 15:45 – 16:05 *G. Fijavž*: Weighted Hadwiger conjecture
- 16:15 – 16:45 **Coffee break**
- Session 1**
- 16:45 – 17:05 *T. Pisanski*: Bokowski systems of curves
- 17:15 – 17:35 *H. Gropp*: Configurations — 75 years after the death of Ernst Steinitz
- 17:45 – 18:05 *R. Bacher*: Choosing trees in an orchard
- 18:15 – 18:35 *A. Malnič*: An infinite family of regular partial cubes
- Session 2**
- 16:45 – 17:05 *M. Zaveršnik*: Short cycles connectivity
- 17:15 – 17:35 *D. Fronček*: Magic type labelings and tournament scheduling
- 17:45 – 18:05 *J. Žerovnik*: A remark on n -tuple colorings of planar graphs with large odd girth
- 18:15 – 18:35 *T. Ryuzo*: Transferability of graphs

Wednesday, June 25

- 9:00 – 9:50 *B. Grünbaum*: Graphs of polyhedra; polyhedra as graphs
10:00 – 10:50 *V. Chepoi*: Algebraic characterization of weakly median graphs
10:55 – 11:15 **Coffee break**
11:15 – 11:55 *T. Tucker*: Balanced regular Cayley maps for abelian groups
12:00 – 12:30 *M. Conder*: Regular Cayley maps for finite abelian groups, II

Excursion in the afternoon

Thursday, June 26

- 9:00 – 9:50 *M. N. Ellingham*: The nonorientable genus of complete tripartite graphs
- 10:00 – 10:50 *P. Hell*: Homomorphisms to graphs with bounded degrees
- 11:00 – 11:30 **Coffee break**
- Session 1**
- 11:30 – 11:50 *K. Ando*: Vertices of degree 5 in a minimally contraction critically 5-connected graph
- 12:00 – 12:20 *T. Böhme*: Connectivity and minors in large graphs
- 12:30 – 12:50 *D. Bokal*: The minor crossing number
- Session 2**
- 11:30 – 11:50 *M. Šajna*: Mobility of vertex-transitive graphs
- 12:00 – 12:20 *T. K. Lim*: Homogeneous factorisations of complete graphs with edge-transitive factors
- 12:30 – 12:50 *J. Šiagiová*: Infinite planar vertex-transitive and Cayley maps with a given covalence sequence
- 13:00 – 15:00 **Lunch time**
- 15:00 – 15:40 *J. Koolen*: Is there a finite number of distance-regular graphs with fixed valency?
- Session 1**
- 15:45 – 16:05 *H. M. Mulder*: Signpost systems and their underlying graphs
- Session 2**
- 15:45 – 16:05 *M. Hirasaka*: Construction of association schemes from difference sets
- 16:15 – 16:45 **Coffee break**
- Session 1**
- 16:45 – 17:05 *A. Bonato*: Mutually embeddable vertex-transitive graphs and trees
- 17:15 – 17:35 *D. Delić*: Embeddings into the monoid of the random graph
- 17:45 – 18:05 *J. Jerebic*: The strong isometric dimension of graphs of diameter 2
- Session 2**
- 16:45 – 17:05 *D. Catalano*: Approaching multiple-edge hypermaps
- 17:15 – 17:35 *M. Razpet*: The middle row of the principal cell
- 17:45 – 18:05 *M. Małafiejski*: On the chordless graphs
- 19:00 – **Conference dinner (Kunstelj, Radovljica)**

Friday, June 27

- 9:00 – 9:50 *K. Kawarabayashi*: On disjoint paths problem
- 10:00 – 10:50 *R. Nowakowski*: Well covered graphs, decompositions and associated vector spaces
- 11:00 – 11:30 **Coffee break**
- 11:30 – 11:50 *B. Mohar*: Separation and rigidity indices of graphs
- 12:00 – 12:20 *D. M. Van Wieren*: On the domination number of the torus
- 12:30 – 12:50 *N. Bouz-Asal*: Graph processes derived from statistical correlation matrices