Fourth Slovene International Conference in Graph Theory

Monday, 28th June

9:00 – 9:30 Opening
9:30 – 10:15 C. St. J. A. Nash-Williams: An application of network flows to rearrangement of series
10:15 – 11:00 C. H. Li: On finite s-arc transitive graphs
11:00 – 11:20 Coffee break
11:20 – 12:05 N. Robertson: Some thoughts on Hadwiger’s Conjecture

Session 1

12:15 – 12:35 B. Mohar: $K_{3,k}$ minors in 7-connected graphs
12:40 – 13:00 D. Marušić: On transitive permutation groups with a non-self-paired suborbit of length 2 and their graphs
13:00 – 14:30 Lunch time
14:30 – 14:50 S. Zhou: Symmetric graphs, 2-arc transitive graphs and near-polygonal graphs
14:55 – 15:15 P. Hliněný: On possible counterexamples to Negami’s planar cover conjecture
15:20 – 15:40 M. Voigt: Polyhedral graphs with restricted number of faces of the same type
15:40 – 16:00 Coffee break
16:00 – 16:20 T. Böhme: Labeled $K_{2,t}$ minors in plane graphs
16:25 – 16:45 H. Harbort: Special numbers of crossings for complete graphs
16:50 – 17:10 A. Pruchnewski: On the domination number of a graph
17:15 – 17:35 M. Muzychuk: On isomorphism criteria for circulant graphs

Session 2

12:15 – 12:35 D. Fronček: Scheduling Czech national basketball league
12:40 – 13:00 S. Hartmann: On supersimple graph designs
13:00 – 14:30 Lunch time
14:30 – 14:50 C. Little: Towards a characterisation of Pfaffian graphs
14:55 – 15:15 A. Kotlov: Matchings and Hadwiger’s conjecture
15:20 – 15:40 M. Kriesell: Local spanning trees in graphs and hypergraph decomposition with respect to edge connectivity
15:40 – 16:00 Coffee break
16:00 – 16:20 V. Kabanov: On locally claw-free graphs
16:25 – 16:45 A. Nakamoto: Generating triangulations on closed surfaces with minimum degree at least 4
16:50 – 17:10 A. Vesel: Recognizing pseudo-median graphs
17:15 – 17:35 O. Serra: A local-global principle for vertex isoperimetric problems
18:30 – 19:00 Welcoming - Aperitiv Bar in Hotel Golf
Fourth Slovene International Conference in Graph Theory

Tuesday, 29th June

9:00 – 9:15  *Pisanski Day:* Tom Tucker  
9:15 – 10:00  *T. Pisanski:* Configurations and graphs  
10:00 – 10:45  *A. T. White:* Modelling finite geometries on surfaces  
10:45 – 11:05  **Coffee break**  
11:05 – 11:50  *T. Tucker:* Asymptotic growth in graphs of bounded valence  
11:50 – 12:35  *R. Nedela:* Half-arc transitive group actions on graphs of valency four

**Session 1**

12:40 – 13:00  *R. B. King:* Novel highly symmetrical trivalent graphs which lead to negative curvature carbon and boron nitride chemical structures

13:00 – 14:30  **Lunch time**

14:30 – 14:50  *J. Žerovnik:* An algorithm for $k$-convex closure  
14:55 – 15:15  *H. Gropp:* Configurations between geometry and combinatorics  
15:20 – 15:40  *K. T. Huber:* Some new aspects of the Buneman graph  
15:40 – 16:00  **Coffee break**  
16:00 – 16:20  *A. Malnič:* Action graphs and coverings  
16:25 – 16:45  *M. Petkovšek:* Letter graphs  
16:50 – 17:10  *B. Zgrablič:* Highly arc-transitive digraphs with no homomorphism onto $\mathbb{Z}$  
17:15 – 17:35  *A. Žitnik:* Plane graphs with Eulerian Petrie walks

**Session 2**

12:40 – 13:00  *J. Harant:* On the independence number of a graph

13:00 – 14:30  **Lunch time**

14:30 – 14:50  *L. Cai:* Game chromatic index of $k$-degenerate graphs  
15:20 – 15:40  *G. Loerincs:* Cayley graphs of order 10  
15:40 – 16:00  **Coffee break**  
16:00 – 16:20  *J. Koolen:* $k$-cross-free set systems  
16:25 – 16:45  *A. Jurišić:* Krein parameters of antipodal distance-regular graphs of diameter 4  
16:50 – 17:10  *J. M. Thomson:* Excluding minors in nonplanar graphs of girth at least five  
17:15 – 17:35  *V. Batagelj:* Analyses of Erdős graph

18:00 – 19:00  **Problem Session**
Fourth Slovene International Conference in Graph Theory

Wednesday, 30th June

9:00 – 9:45  B. Reed: Colouring graphs with high chromatic number
9:45 – 10:30 H. Glover: Hamilton cycles in Cayley graphs
10:30 – 10:50 Coffee break
11:35 – 12:20 M. Conder: Combinatorial group-theoretic methods in graph theory

13:30 – Excursion to Vintgar, Bohinj, and Savica
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Thursday, 1st July

9:00 – 9:15  **Sabidussi Day**: Wilfried Imrich
9:15 – 10:00  G. Sabidussi: Connectivity of vertex-transitive graphs
10:00 – 10:45  W. Imrich: Median graphs and triangle-free graphs
10:45 – 11:05  **Coffee break**
11:05 – 11:50  X. Zhu: Regular colouring of distance graphs and circulant graphs
11:50 – 12:20  H. Fleischner: Bipartizing matchings and Sabidussi’s compatibility conjecture

**Session 1**

12:25 – 12:45  C. Tardif: A Hedetniemi-type problem for multicolourings
12:50 – 13:10  S. Klavžar: Metric and other properties of benzenoid graphs
13:10 – 14:30  **Lunch time**
14:30 – 14:50  R. C. Brewster: Homomorphisms to powers of digraphs
14:55 – 15:15  J. Šišar: Coverings of graphs and maps, orthogonality, and eigenvectors
15:20 – 15:40  R. Jajcay: Skew-morphisms of regular Cayley maps
15:40 – 16:00  **Coffee break**
16:00 – 16:20  I. Schiermeyer: Forbidden subgraphs and MIN-algorithm for independence number
16:25 – 16:45  Z. Ryjáček: Clique covering and degree conditions in claw-free graphs
16:50 – 17:10  N. Cavenagh: Minimal base sizes and proper $k$-covers
17:15 – 17:35  A. Breda D’Azevedo: Chiral hypermaps

**Session 2**

12:25 – 12:45  A. A. Makhnev: Regular graphs and their extensions
12:50 – 13:10  M. Morton: Domination conditions for tournaments
13:10 – 14:30  **Lunch time**
14:30 – 14:50  L. Milazzo: Embedding partial bipartite directed cycle systems
14:55 – 15:15  B. Brešar: The relational expansion on graphs
15:20 – 15:40  R. Škrekovski: Relations between median graphs, semi-median graphs and partial cubes
15:40 – 16:00  **Coffee break**
16:00 – 16:20  A. Lipovec: On subgraphs of Cartesian product graphs
16:25 – 16:45  J. Marinček: On computation of the local density of a graph
16:50 – 17:10  M. Kobeissi: Embedding graphs into hypercubes
17:15 – 17:35  P. Potočnik: On edge but not vertex transitive regular graphs

19:00 –  **Conference Dinner at the Bled Castle**
# Fourth Slovene International Conference in Graph Theory

## Friday, 2nd July

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>9:00 – 9:45</td>
<td>B. Alspach</td>
<td>Cycle decomposition problems</td>
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<tr>
<td>9:45 – 10:30</td>
<td>D. Archdeacon</td>
<td>The representativity of planar graphs</td>
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<td>10:30 – 10:50</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>10:50 – 11:35</td>
<td>J. P. Hutchinson</td>
<td>Four-coloring Eulerian triangulations of surfaces</td>
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</tbody>
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### Session 1

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:45 – 12:05</td>
<td>S. Negami</td>
<td>Re-embedding structures of 5-connected projective planar graphs</td>
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<tr>
<td>12:10 – 12:30</td>
<td>C. P. Bonnington</td>
<td>Vertex accumulation points in infinite planar graphs</td>
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<td>12:35 – 12:55</td>
<td>L. K. Jørgensen</td>
<td>Directed strongly regular graphs: Cayley graph constructions</td>
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<td>12:55 – 14:30</td>
<td><strong>Lunch time</strong></td>
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<tr>
<td>14:30 – 14:50</td>
<td>K. Ota</td>
<td>Choice number of complete multi-partite graphs</td>
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<td>14:55 – 15:15</td>
<td>H. Servatius</td>
<td>Dual Eulerian graphs</td>
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<td>15:20 – 15:40</td>
<td>P. Stadler</td>
<td>Relevant cycles in biopolymers and random graphs</td>
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<td>15:40 – 16:00</td>
<td><strong>Coffee break</strong></td>
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<td>16:00 – 16:20</td>
<td>A. S. Llado</td>
<td>Regular packings of regular graphs</td>
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<td>16:25 – 16:45</td>
<td>H.-J. Voss</td>
<td>Light subgraphs of multigraphs embedded in compact 2-manifolds</td>
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<td>16:50 – 17:10</td>
<td>L. Petingi</td>
<td>A new technique for the characterization of graphs with maximum</td>
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<td>number of spanning trees</td>
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<td>17:15 – 17:35</td>
<td>M. Razpet</td>
<td>A self-similarity structure generated by king’s walk</td>
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### Session 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:45 – 12:05</td>
<td>D. Cariolaro</td>
<td>On the Ramsey number $R(3, 6)$</td>
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<tr>
<td>12:10 – 12:30</td>
<td>U. Leck</td>
<td>Orthogonal double covers of complete graphs by paths and cycles</td>
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<td>12:35 – 12:55</td>
<td>J. Aleš</td>
<td>Automorphism groups of Walecki tournaments</td>
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<td>12:55 – 14:30</td>
<td><strong>Lunch time</strong></td>
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<td>14:30 – 14:50</td>
<td>B. Zmazek</td>
<td>Factoring Cartesian graph bundles</td>
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<td>14:55 – 15:15</td>
<td>M. Šajna</td>
<td>Cycle decompositions of $K_n$ and $K_n - I$</td>
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<td>15:20 – 15:40</td>
<td>D. J. Guan</td>
<td>On optimal fault-tolerant message routing algorithm for double-loop networks</td>
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<td>15:40 – 16:00</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>16:00 – 16:20</td>
<td>F. Havet</td>
<td>Channel assignment and multicoloring subgraphs of the triangular lattice</td>
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<td>16:25 – 16:45</td>
<td>R. Rizzi</td>
<td>Minimizing symmetric set functions</td>
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<tr>
<td>16:50 – 17:10</td>
<td>T. Fleiner</td>
<td>Some applications of monotonic functions</td>
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<td>17:15 – 17:35</td>
<td>S. Gravier</td>
<td>Pentomino exclusion problem</td>
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**Later** \[ ... \] **Survivors Party**