Algorithmic Graph Theory on the Adriatic Coast

Tuesday, June 16, 2015 - Friday, June 19, 2015

UP FAMNIT, Koper, Slovenia

Scientific Programme with Timetable

Timetable: PDF

Algorithmic Graph Theory on the Adriatic Coast is an international workshop giving an opportunity to participants to present latest advances in Algorithmic Graph Theory and related areas.

The workshop will feature four invited talks:

Endre Boros, **Generation of monotone graph structures**

Vadim V. Lozin, **From Matchings to Independent Sets**

Sang-il Oum, **Constructive algorithm for rank-width of graphs and path-width/branch-width of matroids**

Dimitrios Thilikos, **Algorithms and Combinatorics on the Erdős–Pósa property**

There will also be a number of contributed talks.

Topics of interest include (but are not limited to):

Graph decompositions

Graph width parameters (treewidth, clique-width, rank-width, etc.)

Graph modification problems

Structural graph theory (structure of graphs in hereditary, monotone and minor-closed graph classes)

Computational complexity of graph problems - classical and parameterized

Approximation algorithms for graph problems

Exact exponential-time algorithms for graph problems

Graph classes related to perfect graphs

Graph invariants - bounds, algorithmic aspects

Planar graphs and generalizations

Algorithmic aspects of symmetric graphs

Algorithmic aspects of product graphs

Algorithmic aspects of metric graph theory

Applications of algorithmic graph theory