

# 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