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Research interest: Combinatorial Optimization, Computational Geometry, Approximation Algorithms

Recent publications:

[1] S. Funke, T. Malamatos, D. Matijević, N. Wolpert, *Conic nearest neighbor queries and approximate Voronoi diagrams*, **Computational Geometry - Theory and Applications 48/2** (2015), 76-86
[2] K. Elbassioni, D. Matijević, D. Ševerdija, *Guarding 1.5D Terrains with Demands*, **International Journal of Computer Mathematics 89/16** (2012), 2143-2151
[3] K. Elbassioni, S. Jelić, D. Matijević, *The relation of Connected Set Cover and Group Steiner Tree*, **Theoretical Computer Science 438** (2012), 96-101

Selected publications:

[1] R. Beier, S. Funke, D. Matijević, P. Sanders, *Energy-Efficient Paths In Radio Networks*, **Algorithmica 61/2** (2011), 289-319
[2] K. Elbassioni, E. Krohn, D. Matijević, J. Mestre, D. Ševerdija, *Improved Approximations for Guarding 1.5-Dimensional Terrains*, **Algorithmica 60/2** (2011), 451-463
[3] D. Matijević, R. Osbild, *Finding the Theta-Guarded Region*, **Computational Geometry - Theory and Applications 43/2** (2010), 207-218.
[4] H. Bast, S. Funke, D. Matijevic , *„TRANSIT: Ultrafast Shortest-Path Queries with Linear-Time Preprocessing"*, **The Shortest Path Problem: Ninth DIMACS Implementation Challenge, pp. 175–192, AMS**, 2009
[5] Friedrich Eisenbrand, Stefan Funke, Andreas Karrenbauer, Domagoj Matijević, *„Energy-Aware Stage Illumination"*, **International Journal of Computational Geometry and Applications (IJCGA)**, 18/1-2:107-129, 2008