

### Conference Publications:

- C-30) J. Ajay and **S. Roy**: *Collision-free Routing Problem with Restricted L-path*. to appear at IWOCA 2018.
- C-29) H. Kaplan, **S. Roy** and M. Sharir: *Finding axis-parallel rectangles of fixed perimeter or area containing the largest number of points*. ESA 2017: 52:1-52:13.
- C-28) A. Acharyya, S. C. Nandy, S. Pandit, **S. Roy**: *Covering segments with unit squares*. WADS 2017: 1-12.
- C-27) S. Sadhu, **S. Roy**, S. C. Nandy, S. Roy: *Optimal covering and hitting of line segments by two axis-parallel squares*. COCOON 2017: 457-468.
- C-26) S. Sadhu, **S. Roy**, S. Nandi, S. C. Nandy, S. Roy: *Computing the triangle maximizing the length of its smallest side inside a convex polygon*. ICCSA 2017: 509-524.
- C-25) S. C. Nandy, S. Pandit, S. Roy: *Covering Points: Minimizing the Maximum Depth*. CCCG 2017: 37-42.
- C-24) A. Acharyya, S. C. Nandy, **S. Roy**: *Minimum Width Color Spanning Annulus*. COCOON 2016: 431-442.
- C-23) S. Chakraborty, S. Ghosh, N. Jha, **S. Roy**: *Maximal and Maximum Transitive Relation Contained in a Given Binary Relation*, COCOON 2015: 587-600.
- C-22) N. Banerjee, S. Chakraborty, V. Raman, **S. Roy**, S. Saurabh: *Time-space Tradeoffs for Dynamic Programming in Trees and Bounded Treewidth Graphs*. COCOON 2015: 349-360.
- C-21) B. K. Bhattacharya, M. De, A. Maheshwari, S. C. Nandy, **S. Roy**: *Maximum Independent Set for Interval Graph and Tree in Space-efficient Models*. CALDAM 2015: 69-80.
- C-20) B. K. Bhattacharya, S. C. Nandy, **S. Roy**: *Space-Efficient Algorithm for Computing a Centerpoint of a Point Set in  $R^2$* . CCCG 2014: 26-32.
- C-19) B. K. Bhattacharya, M. De, S. C. Nandy, **S. Roy**: *Maximum Independent Set for Interval Graphs and Trees in Space Efficient Models*. CCCG 2014: 226-232.
- C-18) S. Chakraborty, R. Pratap, **S. Roy**, S. Saraf: *Helly-Type Theorems in Property Testing*. LATIN 2014: 306-317.
- C-17) B. K. Bhattacharya, M. De, T. Kameda, **S. Roy**, V. Sokol, Z. Song: *Back-Up 2-Center on a Path/Tree/Cycle/Unicycle*. COCOON 2014: 417-428.
- C-16) M. De, S. C. Nandy, **S. Roy**: *Minimum Enclosing Circle with Few Extra Variables*, FSTTCS 2012: 510-521.
- C-15) M. De, S. C. Nandy, **S. Roy**: *In-Place Algorithms for Computing a Largest Clique in Geometric Intersection Graphs*, FAW-AIM 2012: 327-338.

- C-14) S. Banerjee, B. B. Bhattacharya, S. Das, A. Karmakar, A. Maheshwari, **S. Roy**: *On the Construction of a Generalized Voronoi Inverse of a Rectangular Tessellation*, ISVD 2012: 132-137.
- C-13) J. Augustine, Q. Han, P. Loden, S. Lodha, **S. Roy**: *Energy-Efficient Shortest Path Algorithms for Convergecast in Sensor Networks*. CATS 2011: 31-41.
- C-12) S. Patil, **S. Roy**, J. Augustine, A. Redlich, A. Deshpande, M. Gharote, S. Lodha, A. Mehrotra, H. Vin: *Minimizing Application Testing in Database Migration*. COMAD 2010: 191-201.
- C-11) P. Bose, S. Langerman, **S. Roy**: *Smallest enclosing circle centered on a query line segment*. CCCG 2008: 167-170.
- C-10) A. Karmakar, **S. Roy**, S Das: *Guarding exterior region of a simple polygon*. WALCOM 2008: 100-110.
- C-9) **S. Roy**, S. Lodha, S. Das, A. Maheshwari: *Approximate shortest descent path on a terrain*. CCCG 2008: 189-192.
- C-8) A. Karmakar, **S. Roy**, S Das: *Fast Computation of smallest enclosing circle with center on a query line segment*. CCCG 2008: 273-276.
- C-7) **S. Roy**, A. Karmakar, S. Das, S. C. Nandy: *Constrained minimum enclosing circle with center on a query line segment*. MFCS 2006: 765-776.
- C-6) D. Bardhan, **S. Roy**, S. Das: *Optimal guard placement problem under L-visibility*. ICCSA 2006: 10-19.
- C-5) **S. Roy**, D. Bardhan, S Das: *Efficient algorithm for placing base stations by avoiding forbidden zone*. ICDCIT 2005: 105- 116.
- C-4) **S. Roy**, S. Bhattacharjee, S. Das, S. C. Nandy: *A Fast algorithm for point labeling problem*. CCCG 2005: 152-155.
- C-3) **S. Roy**, S. Das, S. C. Nandy: *Shortest monotone descent path problem in polyhedral terrain*. STACS 2005: 281-292.
- C-2) **S. Roy**, S. Das, S. C. Nandy: *A practical algorithm for approximating shortest weighted path between a pair of points on polyhedral surface*. ICCSA 2004: 42-52.
- C-1) **S. Roy**, P. P. Goswami, S. Das, S. C. Nandy: *Optimal algorithm for a special point-labeling problem*. SWAT 2002: 110-120.