

Ranita Biswas

cse.iitkgp.ac.in/~ranita

Journal Publications

- DAM'16 Ranita Biswas, Partha Bhowmick & Valentin E. Brimkov, *On the Polyhedra of Graceful Spheres and Circular Geodesics*, Discrete Applied Mathematics, 2016 (in press, doi: <http://dx.doi.org/10.1016/j.dam.2015.11.017>).
- TCS'16 Ranita Biswas & Partha Bhowmick, *From Prima Quadraginta Octant to Lattice Sphere through Primitive Integer Operations*, Theoretical Computer Science, Vol. 624, Pages 56-72, 2016.
- TCS'15 Ranita Biswas & Partha Bhowmick, *On Different Topological Classes of Spherical Geodesic Paths and Circles in \mathbb{Z}^3* , Theoretical Computer Science, Vol. 605, Pages 146-163, 2015.
- TVC'15 Ranita Biswas & Partha Bhowmick, *Layer the Sphere*, The Visual Computer, Springer, Vol. 31, Pages 787-797, 2015.

International Conferences

- CTIC'16 Nabhasmita Sen, Ranita Biswas & Partha Bhowmick, *On some local topological properties of naive discrete sphere*, 6th IAPR International Workshop on Computational Topology in Image Context: CTIC'16, 15-17 Jun 2016, Marseille, France (*to appear in LNCS proceedings*).
- DGCI'16 Ranita Biswas & Partha Bhowmick, *On Functionality of Quadraginta Octants of Naive Sphere with Application to Circle Drawing*, 19th IAPR International Conference on Discrete Geometry for Computer Imagery: DGCI'16, 18-20 Apr 2016, Nantes, France (*to appear in LNCS proceedings*).
- IWCIA'15 Ranita Biswas, Partha Bhowmick & Valentin E. Brimkov, *On the Connectivity and Smoothness of Discrete Spherical Circles*, 17th International Workshop on Combinatorial Image Analysis: IWCIA'15, 24-27 Nov 2015, Kolkata, India, LNCS 9448, pages 86-100.
- CGI'15 Ranita Biswas & Partha Bhowmick, *Layer the Sphere (TVC Special Issue Paper)*, 32nd Annual Conference Computer Graphics International: CGI'15, 24-26 June 2015, Strasbourg, France.
- DGCI'14 Ranita Biswas & Partha Bhowmick, *On Finding Spherical Geodesic Paths and Circles in \mathbb{Z}^3* , 18th IAPR International Conference on Discrete Geometry for Computer Imagery: DGCI'14, 10-12 Sep 2014, Siena, Italy, LNCS 8668, Pages 396-409.
- C3IT'12 Ranita Biswas & Jaya Sil, *An Improved Canny Edge Detection Algorithm Based on Type-2 Fuzzy Sets* 2nd International Conference on Computer, Communication, Control and Information Technology: C3IT'12, 25-26 Feb 2012, India, Elsevier Procedia Technology, Vol. 4, Pages 820-824, 2012.

Computer Science and Engineering Department

IIT Kharagpur, West Bengal 721302

✉ biswas.ranita@gmail.com • cse.iitkgp.ac.in/~ranita