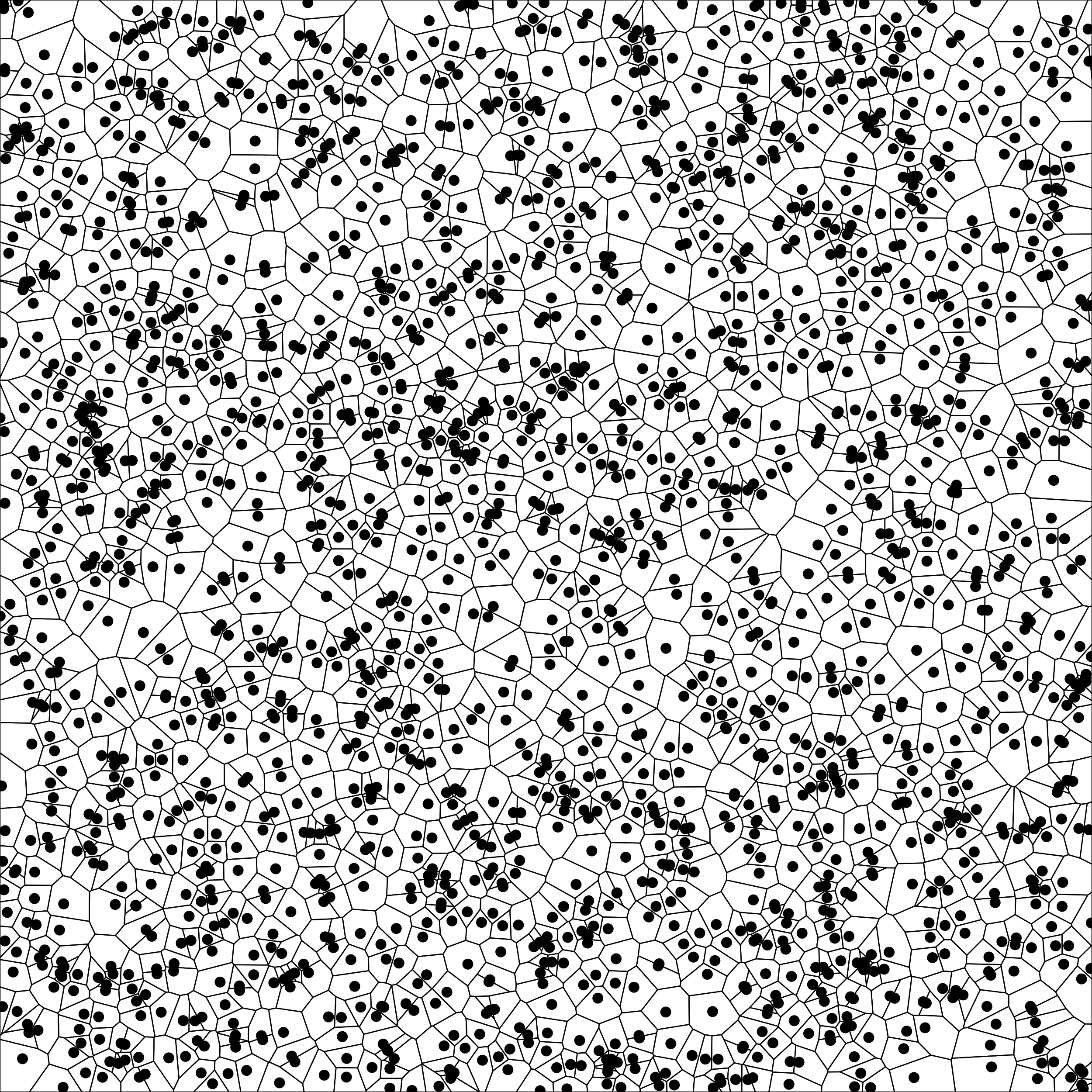
Carolina Lopes | CSE306 | Spring 2020

Geometry Processing

CSE306



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| Polygon Clipping – Sutherland Algorithm | |
|  | Showing Polygon clipping using the Sutherland algorithm |
| Voronoi diagram | |
|  | *4 non-random samples*  *Naïve O(n2)*  ***Time taken: 7ms*** |
|  | *200 random samples*  *Naïve O(n2)*  ***Time taken: 37ms*** |
|  | *2000 random samples*  *Naïve O(n2)*  ***Time taken: 2207ms*** |
| Power Diagram | |
|  | *4 non-random samples*  *Vector 1 = (0.1,0.2,0) Weight = 0.03*  *Vector 2 = (0.2,0.3,0) Weight = 0.03*  *Vector 3 = (0.3,0.2,0) Weight = 0.03*  *Vector 1 = (0.3,0.1,0) Weight = 0.03*  *Vector 1 = (0.1,0.2,0) Weight = 0.01*  *Vector 2 = (0.2,0.3,0) Weight = 0.03*  *Vector 3 = (0.3,0.2,0) Weight = 0.05*  *Vector 1 = (0.3,0.1,0) Weight = 0.03*  *Vector 1 = (0.1,0.2,0) Weight = 0.01*  *Vector 2 = (0.2,0.3,0) Weight = 0.03*  *Vector 3 = (0.3,0.2,0) Weight = 0.08*  *Vector 1 = (0.3,0.1,0) Weight = 0.03*  ***Time taken: 3ms (for both)*** |
| LBGFS | |
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