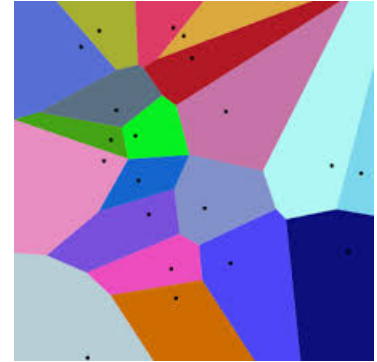


Mosaic Images using Voronoi Diagrams.

Nabil Mustafa.

Given a set of points in the plane, the [Voronoi diagram](#) of these points is a geometric structure which breaks the plane into regions based on the distance to these points. See the figure on the right. As can be seen, each point p has a 'region', which consists of points closer to p than to any other point.



Voronoi diagrams have found many applications in science and technology, as well as art. In this project, I propose to use Voronoi diagrams to create mosaics from pictures.

The goal of the project is to implement the algorithm in this paper :

[A Method for Creating Mosaic Images Using Voronoi Diagrams.](#)

This project will be implemented on Android so that mosaics can be created from pictures taken by the camera.

The algorithm takes a picture and outputs a mosaic of that picture. Two examples from the above paper "A Method for Creating Mosaic Images Using Voronoi Diagrams" :

