

ABSTRACT

Bandung, Which has a vision to improve the quality of its education makes Bandung City government creating some policies to improve the quality of Bandung education. One of them with *rayon* system that divides the school into several grouping area in order to avoid students away from problem that exist in Bandung City and makes all school equal. But this *rayon* system still causes some problems especially in the division of its territory on urban areas. Seeing the problem in *rayon* system the author will make a coverage area based of some senior high schools areas using Network Voronoi Diagram(NVD). In the process the author will build a coverage area on the map. The limits of each covered area were determined using NVD for each roads that connect between schools. The Results show new areas created from NVD forming a new coverage area and suitable for use in urban areas.

Keywords : Map, Spatial Database, Network Voronoi Diagram, Geographical Information System