Abstract

On October 8, 2014 Telkom University had a Green Campus program by procuring inexpensive and environmentally friendly transportation equipment called the campus bicycle program. The campus bicycle program can serve bicycle loans around the campus to support the convenience of the academic community. However, this campus bicycle program is still considered ineffective because the information facilities on parking available on campus are inadequate. In overcoming these problems, the authors will create a system that can provide bicycle parking location recommendations to facilitate the academic community in carrying out borrowers and returning bicycles at the nearest bicycle parking location and available. Genetic algorithm method is applied by the author in designing location detection on bicycle parking where the system can issue information values in the form of coordinates. The author uses the Genetic Algorithm method because the method can produce optimal results

Keywords: Campus Bike Program, Recommended Parking Locations, Genetic Algorithm.