

INTISARI

Pada akhir tahun 2019 menjelang tahun 2020 dunia dihebohkan dengan kemunculan sebuah jenis virus baru yang menyerang sistem pernafasan manusia. Jenis virus ini sangat mematikan dan perkembangannya sangat pesat. Dalam dunia kedokteran virus tersebut disebut virus Corona (Covid-19). Persebaran Virus Corona ini hampir sudah merata di seluruh wilayah di Indonesia termasuk di Provinsi Jawa Timur. Keputusan penambahan Rumah Sakit rujukan yang tertuang dalam Keputusan Gubernur Jawa Timur Nomor 188/138/KPTS/013/2020 tentang Perubahan Atas Keputusan Gubernur Jawa Timur Nomor 188/125/KPTS/013/2020 tentang penetapan rumah sakit rujukan penyakit Corona Virus Disease 2019 (COVID-19), Rumah Sakit Dr. Harjono adalah Rumah Sakit umum di Kabupaten Ponorogo yang digunakan untuk penanganan pasien covid-19 yang terletak di Jl. Laksamana Yos Sudarsono, Segading, Pakunden, Kec. Ponorogo, Kabupaten Ponorogo, Jawa Timur.

Penelitian ini dilakukan untuk membuat informasi geospasial dalam penentuan rute jalur evakuasi tercepat pada jaringan jalan. Rute atau jalur tercepat adalah jarak yang ditempuh dari tempat asal menuju tempat yang dituju dilalui dengan urutan waktu tertentu. Dalam penelitian ini penentuan jalur tercepat dilakukan berdasarkan penentuan waktu tempuh dan jarak tempuh. Penelitian ini juga membuat informasi kerentanan wilayah terhadap persebaran covid-19 khususnya di wilayah Kabupaten Ponorogo. Indikator kerentanan wilayah berdasarkan data angka pasien terjangkit covid-19. Semakin tinggi angka pada wilayah terjangkit, semakin rentan persebaran penyakit di wilayah tersebut. Semua data persebaran covid-19 diperoleh dari website resmi Pemerintahan Kabupaten Ponorogo serta data pasien terjangkit dari Dinas Kesehatan Kabupaten. Selanjutnya data diolah menggunakan Microsoft Excel, Google Earth Pro dan ArcGIS Desktop.

Kata Kunci: Analisis Penentuan Rute, Rute Tercepat, Sistem Informasi Geospasial, Kerentanan Wilayah

ABSTRACT

At the end of 2019, towards 2020 the world was shocked by the emergence of a new type of virus that attacks the human respiratory system. This type of virus is very deadly and grows very rapidly. In medicine, the virus is called the Corona virus (Covid-19). The spread of the Corona Virus is almost evenly distributed throughout Indonesia, including in East Java Province. The decision to add referral hospitals is contained in the Decree of the Governor of East Java Number 188/138 / KPTS / 013/2020 concerning Amendments to the Decree of the Governor of East Java Number 188/125 / KPTS / 013/2020 concerning the establishment of a referral hospital for Corona Virus Disease 2019 (COVID-19), Dr. Harjono is a public hospital in Ponorogo Regency which is used for the treatment of Covid-19 patients, located on Jl. Laksamana Yos Sudarsono, Segading, Pakunden, Kec. Ponorogo, Ponorogo Regency, East Java.

This research was conducted to create geospatial information in determining the route of the fastest evacuation route on the road network. The fastest route or route is the distance traveled from the place of origin to the destination, which is passed sequentially within a certain time. In this study, the determination of the fastest route was carried out based on the determination of the travel time and the distance traveled. This research also provides information on regional vulnerability to the spread of covid-19, especially in the Ponorogo Regency area. An indicator of regional vulnerability based on data on patient numbers infected with covid-19. The higher the number in the affected area, the more susceptible the disease will spread in that area. All data on the distribution of covid-19 were obtained from the official website of the Ponorogo Regency Government as well as data on infected patients from the District Health Office. Then the data was processed using Microsoft Excel, Google Earth Pro and ArcGIS Desktop.

Keywords: *Analysis of Route Determination, Fastest Route, Geospatial Information System, Regional Vulnerability*