

Sensitivitas jaringan jalan terhadap bahaya longsor pada koridor Ciawi-Cianjur-Jonggol = Road network sensitivity to the landslide danger at Ciawi-Cianjur-Jonggol corridors / Muhammad Alfatih

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Abstrak

ABSTRAK

Jalur jalan Cinjur-Ciawi memiliki perbedaan dengan jalur jalan Cianjur-Jonggol berdasarkan aspek fisik maupun aspek transportasinya. Penelitian ini mengungkapkan pola sensitivitas jaringan jalan terhadap bahaya longsor pada Koridor Ciawi-Cianjur-Jonggol yang dikaji secara spasial berbasis segmen jalan sepanjang 500 meter dengan variabel kemiringan tanah, jenis tanah, frekuensi hujan ekstrim, tutupan lahan, beban kendaraan dan arus kendaraan dengan menggabungkan metode AHP ke dalam analisis overlay intersect. Hasil analisis diketahui bahwa pola sensitivitas pada koridor jalan Ciawi-Cianjur cenderung menyebar pada segmen-segmen jalan tertentu, sedangkan pada koridor jalan Cianjur-Jonggol cenderung mengelompok. Segmen jalan yang sensitivitasnya tergolong sedang lebih sering mengalami longsor dibanding segmen jalan yang sensitivitasnya tinggi.

ABSTRACT

Cianjur-Ciawi road line is different from Cianjur-Jonggol road line based on its physical and transportation aspects. This research tries to find the pattern of road network sensitivity to the landslide danger at Ciawi-Cianjur-Jonggol Corridor which is studied spatially based segment of the road along 500 meters with variables of the slope of the land, soil type, extreme rainfall frequency, land cover, vehicle flow and vehicle weight by combining AHP method into overlay intersect analysis. From the analysis result it is known that the sensitivity pattern at the Ciawi-Cianjur road corridor tends to be distributed at certain road segments, whereas at the Cianjur-Jonggol road corridor tends to be clustered. The road segment with medium sensitivity experiences landslide more frequently than the one with high sensitivity.