Abstract

Congestion can occur from various factors. One of them is the imbalance of road growth with the growth ofvehicles. In this study the traffic flow simulation uses macroscopic which only calculates vehicle density. Thephenomenon that changes is the merging of paths ormerge lanewhich is one of the causes of congestion, inthis study using traffic flow observation data on Jl. Pioneer of Bandung Independence. In this phenomenon, it is appliedFinite Difference Method(FDM) withFlux Corrected Transportusing Zalesak Corrector tobe done using numeric. Then each path will be represented as a flux. The Zalesak Corrector simulationresults are then compared with other numerical methods, the simulation using Zalesak Corrector is error= 0.995, using the Upwind method error = 1.045, using the Lax-Wendroff method error = 1.071912 when Δx = 0.05 From the results of the error, the Zalesak Corrector has a smaller error than against the windand Lax-Wendroff. It is hoped that the Zalesak to Jl. Pioneer of Bandung Independence.

Keywords: Traffic flow, merge lanes, Zalesak Corrector, density