

# GEOMATE Journal Review and Evaluation

## Paper ID number

j2105

## Paper Title

ESTIMATION OF CARBON DIOXIDE EMISSIONS ON HETEROGENEOUS TRAFFIC BASED ON METROPOLITAN TRAFFIC EMISSIONS INVENTORY MODEL (CASE STUDY ON ARTERIAL ROAD, MAKASSAR CITY)

### i. Originality

5 (Excelent)

### ii. Quality

4

### iii. Relevance

5

### iv. Presentation

4

### v. Recommendation

5

## Total (sum of i to v)

23

## General comments

This paper presents very interesting study about the estimation of carbon dioxide emissions on heterogeneous traffic based on metropolitan traffic emissions inventory model (case study on arterial road, Makassar city). In this study, an approach Metropolitan Traffic Emission Inventory model, which is called MARNI model was used to estimate the total CO<sub>2</sub> emission from vehicles operating on arterial roads during the peak hour of morning and evening on 9 arterial roads in Makassar city. The study reveals that the volume of vehicles is directly proportional to the emissions produced by motor vehicles. The paper

is written very carefully and well organized. All the figures are clear. The reviewer recommends this paper for acceptance with the following change.

### **Mandatory changes**

1. Arrangement on Equation (9) was not in sequence in the text. Please rearrange it.
2. Caption of Figure 5 is not in proper location. Please rearrange it.

### **Suggested changes**

nil

**Reviewer's E-mail (Remove before sending to author)**

# GEOMATE Journal Review and Evaluation

## Paper ID number

j2105

## Paper Title

ESTIMATION OF CARBON DIOXIDE EMISSIONS ON HETEROGENEOUS TRAFFIC BASED ON METROPOLITAN TRAFFIC EMISSIONS INVENTORY MODEL

### i. Originality

3

### ii. Quality

3

### iii. Relevance

3

### iv. Presentation

4

### v. Recommendation

4

## Total (sum of i to v)

20

## General comments

Can be accepted after the following improvement.

## Mandatory changes

Title: It is too long. The term case study can be used inside the body of the text in the study area location. The suggested title is "ESTIMATION OF CARBON DIOXIDE EMISSIONS ON HETEROGENEOUS TRAFFIC BASED ON METROPOLITAN TRAFFIC EMISSIONS INVENTORY MODEL"

Title should be all capital. See the template

Abstract: Location name such as Makassar is

written twice. Better to remove it and use the general scientific terms in abstract. The place name should come once inside the text at location section as a case study only.

Research Significance: This section is missing. The authors should use the updated template.

Fig.1 This figure is not acceptable as the figure looks like a map. It must be the standard of research paper in term of style and resolution. Font size must be clear font with 10 font size, times new roman font, not bold, not all capital, not outer boundary etc. Follow template.

Fig.2 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

Fig.3 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

Fig.4 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

Fig.5 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

Fig.6 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

Fig.7 Font size must be clear font with 10 font size, times new roman font, not bold, Follow template. The resolution must be clear with scientific research paper quality.

List of references: Line space should not be 13 points. It should be one-line space.

**Reviewer's E-mail (Remove before sending to author)**