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(Berdica 2002)

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GPS ITS

ABS
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Miles) (Rutela 2003) (Rundmo 2004) (Martinez 2002) (Parker 1997)
(Matthews & Norris 1998) (2002

Ioannis Golias

مطالعات مدیریت شهری

Matthew G. Karlaftis

Average Annual Daily Traffic (AADT)

ADDT

Matthew G. Karlaftis &) .

Ali P. Akgungor Osman Yildiz (Ioannis Golias 2002, 34

) W () Average Daily Traffic (ADT)
() H () PA ()
(ADT-W, ADT-PA, ADT-H)

H PA W ADT

Karlaftis Tarko. (Ali P. Akgungor & Osman, Y 2007, 39)

(Tarko & Karlaftis 1998, 102) .

(Older and Spicer 1983, 98) .

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(Zegeer 1992, 128) .



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Auto CAD Arc GIS

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$$f_i = \frac{f_i}{l_i} \quad ($$

$$\overline{f_{ave}} = \frac{\sum_i f_i}{\sum_i l_i} \quad ($$

$$I_T = 2 \times \overline{f_{ave}} \quad ($$

:() ()

i : f_i

i : l_i

i : \bar{f}_i

: $\overline{f_{ave}}$

() : I_T

$$I_T \quad \bar{f}_i$$

(

$$f_{ave} = \frac{\sum_i f_i}{n} \quad ($$

$$I_T = r \times f_{ave} \quad ($$

: () ()

i : f_i

: n

i : \bar{f}_i

: f_{ave}

() : I_T

$$I_T \quad f_i$$

:

$$R_i = \frac{f_i \times 10^6}{N_d \times L_i \times Q_w} \quad ($$

$$R_{ave} = \frac{\sum_i f_i \times 10^6}{N_d \times \sum_i L_i \times Q_w} \quad ($$

$$Q_w = \frac{\sum_i (L_i Q_i)}{\sum_i L_i} \quad ($$

$$I_T = 2 \times R_{ave} \quad ($$

: () ()

i : f_i

i : L_i

: N_d

(AADT) : Q_i

: Q_w

() i : R_i

) : R_{ave}

(

() : I_T

I_T

R_i

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$$S_i = \frac{\sum_j W_j \cdot f_{ij}}{f_i} \quad ($$

$$\overline{S}_i = \frac{S_i}{L_i} \quad ($$

$$\overline{S_{ave}} = \frac{\sum_i S_i}{\sum_i L_i} \quad ($$

$$I_T = 2 \times \overline{S_{ave}} \quad ($$

:() ()

i

j

: S_i

: W_i

مطالعات صورت شری

$$\begin{aligned}
 & \sum_j f_{ij} & : f_{ij} \\
 (& \sum_i & : f_i \\
 & L_i & : L_i \\
 & \overline{S_i} & : \overline{S_i} \\
 & S_{ave} & : S_{ave} \\
 & (& : I_T \\
 & I_T & S_i \\
 &) & .(
 \end{aligned}$$

$$S_i = \frac{\sum_j W_j \cdot f_{ij}}{f_i} \quad ($$

$$S_{ave} = \frac{\sum_i S_i}{n} \quad ($$

$$I_T = 2 \times S_{ave} \quad ($$

:() ()

$$\begin{aligned}
 & i & : S_i \\
 & j & : W_j \\
 & i & j & : f_{ij}
 \end{aligned}$$



) i : f_i
(: n
: S_{ave}
() : I_T

I_T S_i

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¹ Intelligent Transportation System

² Global Positioning System



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