

5e±. >(>*3>*mM4{>*PR†

0*0/#6*&f#p,%2d

A study on a driving environment adaptive pedestrian detection leveraging location information

D. Suzuo, D. Deguchi, I. Ide, H. Murase (Nagoya University), H. Ishida, Y. Kojima (Toyota Central Research and Development Laboratories)

Dalal }c HOG "IS SVM
[1]>*#~C#8
19#SL/2FLK
Z8>,M%Gb;fYCL/2[
c>#C[KSU#A8>*
WM+Q,QG[%2[c>2n/œ
#"CbPKZL/4\$4:Am2
fLM>,

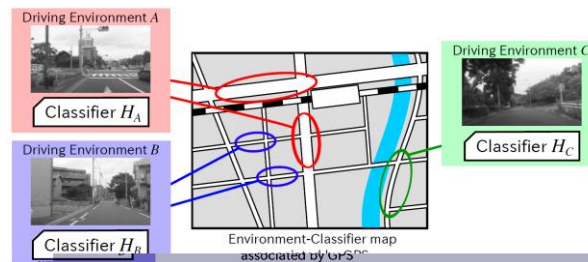


Fig.1: The concept of environment adaptive pedestrian detection.

Fig. 1>,

#.c7u7u?^ ~>* 7ucL/œ..
n/d4:FO#.[6~>*& 1>""4
C2n/6+(8>*& 2>'2n/6bU#Y
8L/6#p7Y9bU 3>'2n/dl'
9p P8P S(>?*7,7u[c>*
)*(#8Z4:)19PEK>L/œœ,

SURF d"IS

8S Bags of Visual Words (BoVW) 6>*0
2n/6SM>,QKZ>*6S"ISf
IG[2n/6(8œ,

2 #7

S*(7Mm2/œ,Gbm2[c>*rN
#6Us1>*(N6M>)F8Z>*
)*(6I6#72"ISbP8YC#i
6(6>,j(b68œ)B&B@
6*f>*Gb8EVK8M>,
GE>*f#8L/œ#p7Y>*>g19pS
(œ,

(a) #"C4:Â



(b) #"C4:Â

Fig. 2: An example of the detection result.

GPS KZ19

19#EM>,QKZ>*4EM19p
L/œœ, Gb#.0)/œ
[>2n/6PKZ4:)19]œ,

GPS K343U6

6>,6>*b2n/2\$
xAW[3 G2n/6KSvb[6>,Gb
:U 2 2n/db4:8>*g• 1 6
06#8S>,
W 2 c>2n/6'Clb4:8(b7bM[
6>,fLm2/p#"C4:8G[4#è
D[AG&1KS>,

謝辞:

JST SSp4%2N4'

CREST

>g&6%22/85 WS>,

e "©

(1) N. Dalal et al.: Proc. CVPR, pp.886~+893, 2005.