

AutoEncoder t = œ . w N * w U |

A Study on the Pose Estimation of an Occluded Object by a De-occluding AutoEncoder

q G % ¹ b ` ¹ Z - G 5 ¹ “ ° à ¹ | 8 ¹ ²
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° y 0 G ¶ ¹ ~ ä » × Ò Û q p ²
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1 x a t

Üä|Ö\~w\$ wh tH ¥tØœ~U
Ö mmK }Øœ~w, ^q'o|œ.w
,jÆ|U []œ. ,jÆ h tx|0⁻
œ.wÝÝZpsX|fw N * b AUK }
t|5~srœ.UµB'o T oM Ýflp |
'oœ.w N * pV \qUl 'M}
œ.wí °lwt,, !ZtXM b h |
Øœ~tx mhp•i-UeL^ \qU M}
mhp;M N* Oq'o| CNN t,nX
s<P^ç;M O [1] UK }lw Ox|œ.
¶.U pVoM \q > 'oM h |œ.
UµB'o Ob Öø|wæ.t ^ \q
pæ.hpt= U\ a| N* U ÉpK }°
M|= œ. 0⁻q'h O [2] px|= îib
AutoEncoder ¶6'| Encoder æiT
^Ök~ç N* t;M U|\w Ox= t
œ./œw c ß'oMsMh |= U
GVM r^SUÿM}
f\p Cflpx|= îipV Ot¶6'h
AutoEncoder ;M|= îiq c w.Y '
mm N* b O b }

2 O

¶6 px c| NU7 wæ.w¶.U_Q
¶6; mhpqf = ^dh w ; '|=
îib AutoEncoder ¶6b }~t|fw
toEncoder wEncoder æ;Mo|= ^dh¶6;
mhpT ^Ök~ç = Zb }7 t|f t0
'o RÜüs\$ PCA £t ~i_n æO}
* px c| NU° wæ.w mhp0
'| 7w ^pZq~i_n æO}f'o| NU
7 wæ.w ^Ök~çwOj7 ~h w 7Ûc
Ot sg'|fw N Z b }
\$ 1 t AutoEncoder t ^pZwrg q Ô
b} ^pZx| c AutoEncoder t = æi î
i'hhp \Rb }~t|îi whp/wæ.U
/œtX Ot ø d æM|6S a AutoEn-
coder tÖb }lwqv| Encoder æiT
^Ök~ç N* t;M }

3 îg

Ow fiQ <Ýb h t|œ.w N*
^Sw°Aîg æh} AutoEncoder 1 sw
; '| ^Ök~ç;Mo N* b O

\$ 1 AutoEncoder t ^pZwrg q

¢[2] îp£q| AutoEncoder 2 s;M O¢
O£q z-'h}
¶6^ »tx| ShapeNet[3]w 100 p w Ú \$ ç
Óœ.w Üä ts8^dh mhp- 3,600
|°A^ »tx¶6^ »qx s 35 p w Ú
<\$ ç Ó 7ts8^dh mhp- 1,260 ;
'h}hpx~<("Mc T äi... Üt 0 50%=
^dh} PCA ;Mh ^Ök~çw~i:x 400
~iq'h} 10 S w- 36 «âµt üa'hqVw
* ALq qw ÉfSi) °A'hq\ | [2]
îpw Opx 14.26 S| Opx 10.96 SpKl
h}lwALT |¶6A AutoEncoder 2 s ;
b Ot ^Swt~ <Ýh}

4 b|

= îi AutoEncoder ;Mh= œ.w
N* OtmMoU|h} x| ^pZ Ow
~‡| 7.~ t ° N* tmMoU|b }

Ü Z w °æJ¶Z 4 Út .

ß Y

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