

De-
sign
of
Al-
go-
rithms
for
Body-
SLAM
??
??
??

$$A=H_{\lambda}R_1(\Psi)T_tR_2(\Phi)$$

$$(1) \hspace{1.5cm} = \lambda cos\Psi - sin\Psi sin\Psi cos\Psi t0 t1 cos\Phi - sin\Phi sin\Phi cos\Phi$$

$\frac{R}{L}$
 $\frac{\Psi}{\Phi}$
 $\frac{\lambda}{\lambda}$
??
??

?
??
 $\frac{P}{P}$
 $\frac{d}{P}$

$$\theta = \tan^{-1}\left(\frac{R}{d}\right)$$

$$(2) \hspace{1.5cm} \frac{R}{??} \\ (x,y) \\ (x',y')$$

$$x'=\frac{L\phi}{2\pi}y'=r$$

$$(3) \hspace{1.5cm} \frac{\phi}{P} \\ ?? \\ \phi = \tan^{-1}\left(\frac{y-y_0}{x-x_0}\right)$$

$$(4) \hspace{1.5cm} \frac{r}{P} \\ r = \sqrt{(x-x_0)^2+(y-y_0)^2}.$$

$$(5) \hspace{1.5cm} \frac{L}{H} \\ ?? \\ x' \\ \phi \\ 0' = \\ x' \\ 2\pi = \\ \frac{x}{L} \\ y' = \\ 0 \\ 0' = \\ \frac{y}{H} \\ \eta \\ ?? \\ P \\ y'$$

$$\theta \cong \left(\frac{y'}{H}\right)\eta$$

$$(6) \hspace{1.5cm} ?? \\ x' \\ ?? \\ ?? \\ P \\ D \\ C \\ \theta_1 \\ d \\ C' \\ P \\ \theta_2$$