AR proctical example

- 21 LR (virtual blending on a plane) - define a square on the ground where the "logo" Will be blended [recognize where in this Green Lo 4 comer in my image only proj. boar-formetin reeded - 30 AR: CAD visterhed and hept et a denied position (1) identify the dominant horizontal plane (*gravity NIIg) (horizon is in the widdle of the ilwage ? this only says sthe about the reletie orientation to the coner) (granty from where? accelerometer or recognize vertical edges => V_V => K⁻¹V_V ~ g)

1e) recognize a plane: Sementic segmentation but there is also a geometric way: correspondences from feature cretching (late March) if correspondences (2, y,) es (2, y) selisly $\begin{pmatrix} \chi_2 \\ g_2 \\ 1 \end{pmatrix} \sim \begin{pmatrix} \chi_1 \\ g_1 \\ 1 \end{pmatrix}$ then with thist probablity I can very that this a plane. * two view collinations: 1) pure rotation (weiting for the phone to bour lake) 2) Il point are very for eway. Why!

1 st
$$\begin{pmatrix} x_1 \\ y_1 \\ 1 \end{pmatrix}$$
 $\sim K \begin{pmatrix} x \\ y \\ 2 \end{pmatrix}$ with convex at pose 1.

1 ling $\begin{pmatrix} x_2 \\ y_2 \\ 1 \end{pmatrix}$ $\sim K \begin{pmatrix} R \begin{pmatrix} x \\ y \\ 2 \end{pmatrix} + T \end{pmatrix}$

2 very large $Z \rightarrow \infty$

$$\sim (K R T) \begin{pmatrix} x \\ y \\ 2 \end{pmatrix}$$

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$$z_{2} = \frac{A_{1}(x_{0} x_{1} + x_{0} y_{1} + x_{0} y_{2} + x_{0} y_{1} + x_{0} y_{1}$$

If I know R: T: we can drow the CAD brodel $\frac{2}{(x_n)} \xrightarrow{\chi_n} \chi_n \rightarrow \text{origin of }$ between sie poist we need to know by Which R. T bener broved ? looling only et de place orywhere (R,T) from H SLM Stricking from Mohi (4) not in this class (R,7), (R7), (R,7), Rose, Tot absolute We need a "Kalman Filter" ARhit, ARove fure Thu (or hierally)

We count disorbigant between
$$(T, d)$$
 or $(2T, 2d)$

Set $||T|| = 1$ 9 unknown

 $R^TR = I$
 $A = USV^T S = \begin{pmatrix} \delta_1 & \delta_2 & \delta_3 \end{pmatrix}$
 $A = O_2 \quad (Ch 5.2)$
 $A = O_2 \quad (Shirte)$
 $A = O_2 \quad (Shirte)$

that yields positive 21, 22
4. remaining problem

117// = ?