Probatabilistransform Line Segment detection ing Weighted Mean-Shift

```
\begin{array}{c} \hat{p}(x,y) \\ \hat{p}_{1}^{\mu_{1}} \\ \hat{p}_{2}^{\mu_{2}} \\ \hat{z}^{k} \\ \hat{p}(x,y) \\ (x,y) \\ \hat{p}_{2}^{\mu_{2}} \\ \hat{p}_{3}^{\mu_{2}} \\ \hat{p}_{4}^{\mu_{2}} \\ \hat{p}_{5}^{\mu_{2}} \\ (\lambda_{1},\lambda_{2}) \\ f_{5}^{\mu_{1}} \\ (\lambda_{1},\lambda_{2}) \\ (x,y) \end{array}
```