$$P(x) = \frac{e \times \rho \left(-\frac{1}{2} \sqrt{1} \sqrt{1} \sqrt{1} \right)}{\sqrt{det} \left(3 \sqrt{1} \sqrt{1} \right)} e \times \rho \left(-\frac{1}{2} \times \sqrt{1} \times \sqrt{$$

$$x \in \mathbb{R}^{n}, \quad z = h(x) + v, \quad v \in \mathbb{N}(0, \leq_{v}) \qquad \frac{|z|}{|z|} = \frac{1}{\sqrt{n} + (|x|)} \cdot \frac{|z|}{|z|} = \frac{1}{\sqrt{n} + (|x|)$$

Scanned by CamScanner

Scanned by CamScanner

SX = (ATA) ATB Thew = X + DX\* 1 1/20/2/ [] 1/4/00E'a!  $X|Z, NN(\hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x}, \hat{x})$ X (Z, Z, N (1, 2, 2)  $P(X|Z,Z_2) = \eta_0 P(Z_1|X) \cdot P(X|Z_1)$ (2,1x) = p(2|x)מוצ המיקה קבום מקור אא  $Z(X N N(h(x), \leq_V)$ P(x/z,,z)= 1. 1 Voletasie, (detasie, exp[-/(||z-h(x)/2+|x-x,||2)]  $\times 17,17, NN(\hat{x}_{2}, \xi_{2})$ 

$$\begin{array}{c}
x_{k} \in \mathbb{R}^{n} & x_{k+1} \circ f(x_{k}, u_{k}) + u_{k} \\
& \times_{KNN}(0, \xi_{M}) \\
Z = h(x) + V , VNN(0, \xi_{V}) \\
& \times_{NN}(\hat{x}_{0}, \xi_{0}) \\
& P(x_{k} \mid x_{k+1}, u_{k+1}) = \hat{c} \\
& E(x_{k+1} \mid x_{k}, u_{k}) = E(f(x_{k}, u_{k}) + u_{k}) = E(f(x_{k}, u_{k})) + E(u_{k}) = E(x_{k+1} \mid x_{k}, u_{k}) = E(f(x_{k}, u_{k})) + Cov(u_{k}) = f(x_{k}, u_{k}) \\
& F(x_{k+1} \mid x_{k}, u_{k}) = F(x_{k}, u_{k}) + Cov(u_{k}) = f(x_{k}, u_{k}) \\
& F(x_{k}, u_{k}) = F(x_{k}, u_{k}) + Cov(u_{k}) = f(x_{k}, u_{k}) \\
& F(x_{k}, u_{k}) = F(x_{k}, u_{k}) + Cov(u_{k}) = f(x_{k}, u_{k}) \\
& F(x_{k}, u_{k}) = F(x_{k}, u_{k}) + F(x_{k}, u_{k+1}) + F(x_{k}, u_{k}) \\
& F(x_{k} \mid x_{k+1}, u_{k}) + F(x_{k}, u_{k}) + F(x_{k}, u_{k}) + F(x_{k}, u_{k}) \\
& F(x_{k} \mid x_{k}, u_{k}) = F(x_{k}, u_{k}) + F(x_{k}, u_{k}) + F(x_{k}, u_{k}) \\
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& F(x_{k} \mid x_{k}, u_{k}) = F(x_{k}, u_{k}) + F(x_{k}, u_{k}) + F(x_{k}, u_{k}) \\
& F(x_{k} \mid x_{k}, u_{k}) = F(x_{k}, u_{k}) + F(x_{$$

$$\frac{1}{2} = \frac{1}{2} \sum_{k} w_{k-1} = \frac{1}{2} \exp \left( \frac{1}{2} || \mathbf{z} - \mathbf{h}(\mathbf{x}_{k})||_{2}^{2} \right) \exp \left( \frac{1}{2} || \mathbf{x}_{k-1} \cdot \mathbf{f}(\mathbf{x}_{k-1})||_{2}^{2} \right) + \frac{1}{2} || \mathbf{x}_{k-1} \cdot \mathbf{f}(\mathbf{x}_{k-1})||_{2}^{2} + \frac{1}{2} || \mathbf{x}_{k-1} \cdot \mathbf{f}(\mathbf{x}_$$