Mathematical Equation

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$$Y = V_r^T X$$

$$\mathbb{R}$$

$$P_i = \frac{1}{t-1} X_i X_i^T \in R^{mxn}$$

$$\delta(P_1, P_2) = \left|\left| log(P_1^{\frac{-1}{2}} P_2 P_1^{\frac{1}{2}}) \right|\right|_F = [\sum_{i=1}^{m} log^2 \lambda_i]^{\frac{1}{2}}$$

$$s_i = upper\left(log(Q_c^{\frac{-1}{2}} P_i Q_c^{\frac{-1}{2}}) \right)$$

$$P_{MEAN} = argmin_{p \in P(m)} \sum_{i=1}^{n} d^2(P, P_i)$$

$$d_E(A, B) = ||A - B||_F$$

$$d_R(A, B) = ||log(A^{\frac{-1}{2}} B A^{\frac{-1}{2}})||_{F^1}$$

$$P_R(\mu) = (\sum_{i=1}^{1} (P_i + \mu_{-1} l)^{-1})^{-1}$$

$$P_{mid^*}^{(k+1)} = (\sum_{i=1}^{n} \frac{P_i}{d_E(P_G^{(k)}, P_i)})(\sum_{i=1}^{n} \frac{1}{d_R(P_{mid^*}^{(k+1)}, P_i)})^{-1}$$

$$V^k = (\sum_{i=1}^{n} \frac{log P_G^{(k)} P_i}{d_R(P_G^{(k)}, P_i)})(\sum_{i=1}^{n} \frac{1}{d_R(P_G^{(k)}, P_i)})$$

$$P_G^{(k+1)} = Exp_{p_G^{(k)}}(V^{(k)}))$$

$$R_e(P_{ref}, S) = exp(log(p_{ref} + s))$$

$$R_e^{-1}(P_{ref}, S) = log(p) - log(p_{ref})$$

$$\Re$$

Item	Quantity	Price
Nails	500	0.34
Wooden boards	1004.00	Price
bricks	240	11.50

City	Year		
	2006	2007	2008
London	45789	46551	51298
Berlin	34759	47366	38364
Paris	34759	47366	38364

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$$V = \begin{bmatrix} s_1 \\ s_2 \\ \vdots \\ s_3 \end{bmatrix}$$