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صورت وجود نویز جمع شونده حذف
نویز بخوبی صورت نمی‌گیرد.

¹ Technique

⁵ Reflecting Signal

⁹ Multiplier

² Non Invasive

⁶ Contrast

¹⁰ Additive

³ Speckle Noise

⁷ Adaptive Median Filter

¹¹ Jain

⁴ Non Correlated

⁸ Neighborhood Window

¹² Weiner Filter

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$$I(x,y) = P(x,y) \cdot S_m(x,y) + S_a(x,y), \quad (x,y) \in Z \quad ()$$

$$\begin{matrix} I(x,y) & Z \\ () & P(x,y) \\ S_a(x,y) & S_m(x,y) \end{matrix} \quad ()$$

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$$I(x,y) = P(x,y) \cdot S_m(x,y), \quad (x,y) \in Z \quad () \quad []$$

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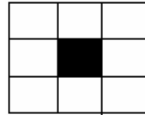
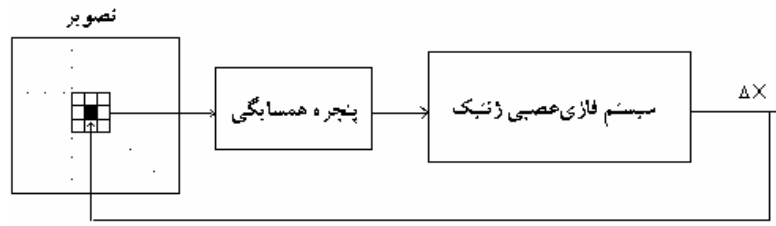
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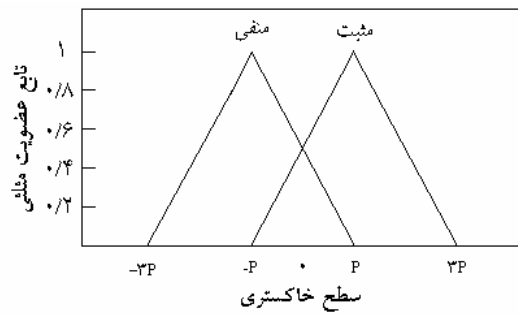
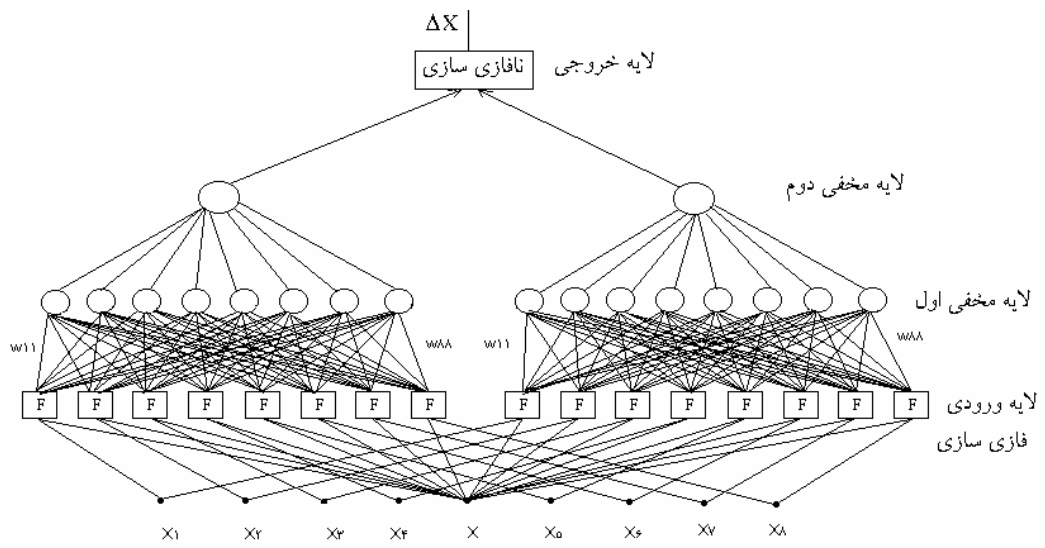
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$$\mu_n(\Delta X) = \begin{cases} 1 - \frac{\Delta X + p}{2p} & -p \leq \Delta X \leq p \\ 1 + \frac{\Delta X + p}{2p} & -3p \leq \Delta X \leq -p \\ 0 & \text{others} \end{cases} \quad ()$$

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$$\Delta X = X_i - X \quad ()$$

$$O_{i1}^1 = \mu_p(\Delta X_i) \quad ()$$

$$O_{i2}^1 = \mu_n(\Delta X_i) \quad ()$$

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X X X X

$\mu_n \mu_p$

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i $O_i^{()}$ (

i $O_i^{()}$

$$\mu_p(\Delta X) = \begin{cases} 1 - \frac{\Delta X - p}{2p} & p \leq \Delta X \leq 3p \\ 1 - \frac{-\Delta X + p}{2p} & -p \leq \Delta X \leq p \\ 0 & \text{others} \end{cases} \quad ()$$

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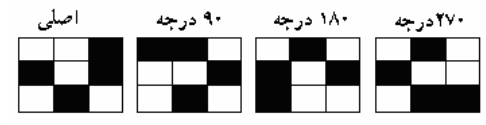
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$$O_1^{(3)} = \text{MAX}_{i=1}^8 (O_{i1}^{(2)}) \quad ()$$

$$O_2^{(3)} = \text{MAX}_{i=1}^8 (O_{i2}^{(2)}) \quad ()$$

$$O^{()}$$



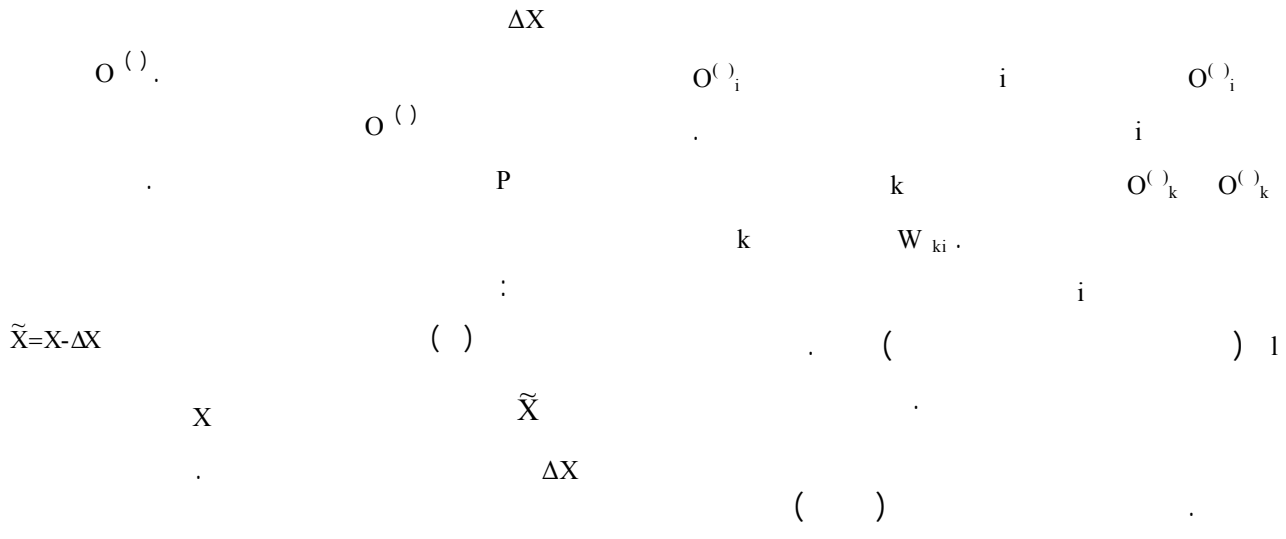
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IF ( X3,X4,X5,X7 ) IS P THEN ΔX IS P
IF ( X1,X2,X5,X7 ) IS P THEN ΔX IS P
IF ( X2,X4,X5,X6 ) IS P THEN ΔX IS P
IF ( X2,X4,X7,X8 ) IS P THEN ΔX IS P
IF ( X3,X4,X5,X7 ) IS N THEN ΔX IS N
IF ( X1,X2,X5,X7 ) IS N THEN ΔX IS N
IF ( X2,X4,X5,X6 ) IS N THEN ΔX IS N
IF ( X2,X4,X7,X8 ) IS N THEN ΔX IS N
( ) AVE AND
( ) MIN
  
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$$\Delta X = \frac{P(O_1^{(3)} - O_2^{(3)})}{(O_1^{(3)} + O_2^{(3)})}$$

$$O_{i1}^{(2)} = \text{MIN}_{l=1}^4 (\text{AVE}_{k=1}^8 (O_{kl}^{(1)} W_{ki}^1)) , i=1, \dots, 8 \quad ()$$

$$O_{i2}^{(2)} = \text{MIN}_{l=1}^4 (\text{AVE}_{k=1}^8 (O_{kl}^{(1)} W_{ki}^2)) , i=1, \dots, 8 \quad ()$$



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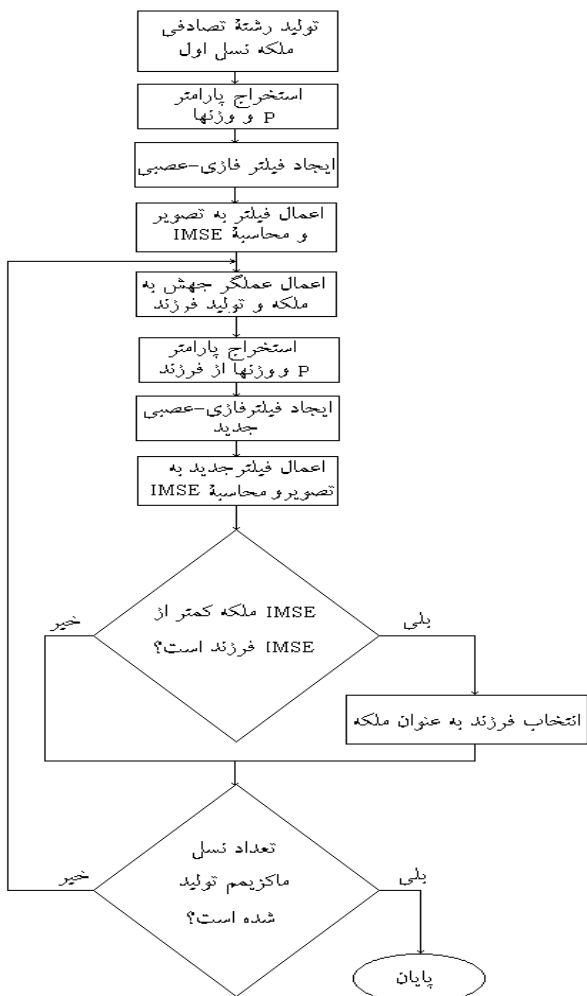
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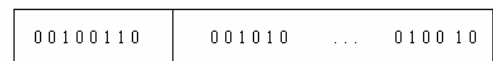
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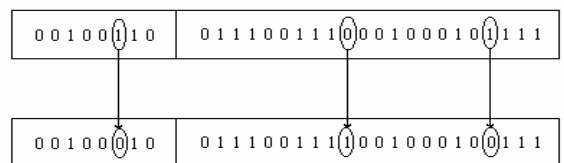
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وزنها $N \times 8$ بیت پهنای تابع عضویت 8 بیتی

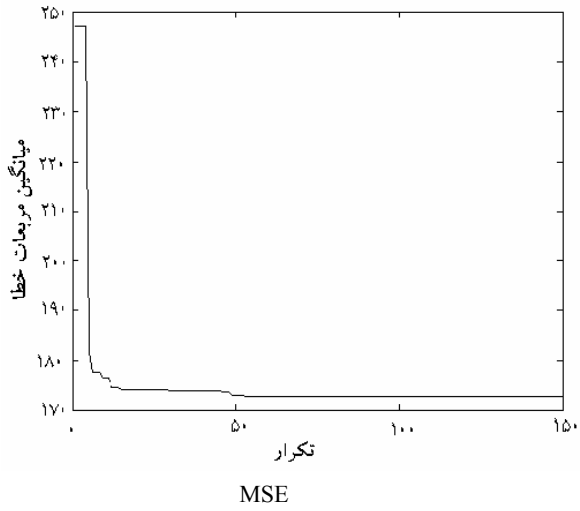


²⁹ Queen
³³ Fitness Function

³⁰ Mutation
³⁴ Inverse Mean Square Error

³¹ Bit

³² Marcov Chain



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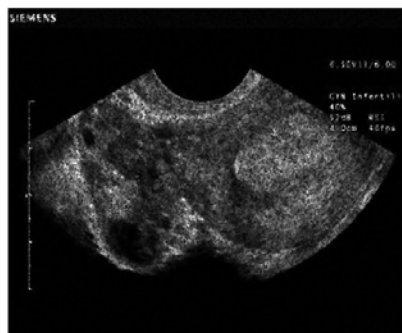
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