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روش، در صورت وجود نویز جمع شونده حذف نویز بجوبی 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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$$I(x,y) = P(x,y) \cdot S_m(x,y) + S_a(x,y), \quad (x,y) \in Z \quad ()$$

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

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

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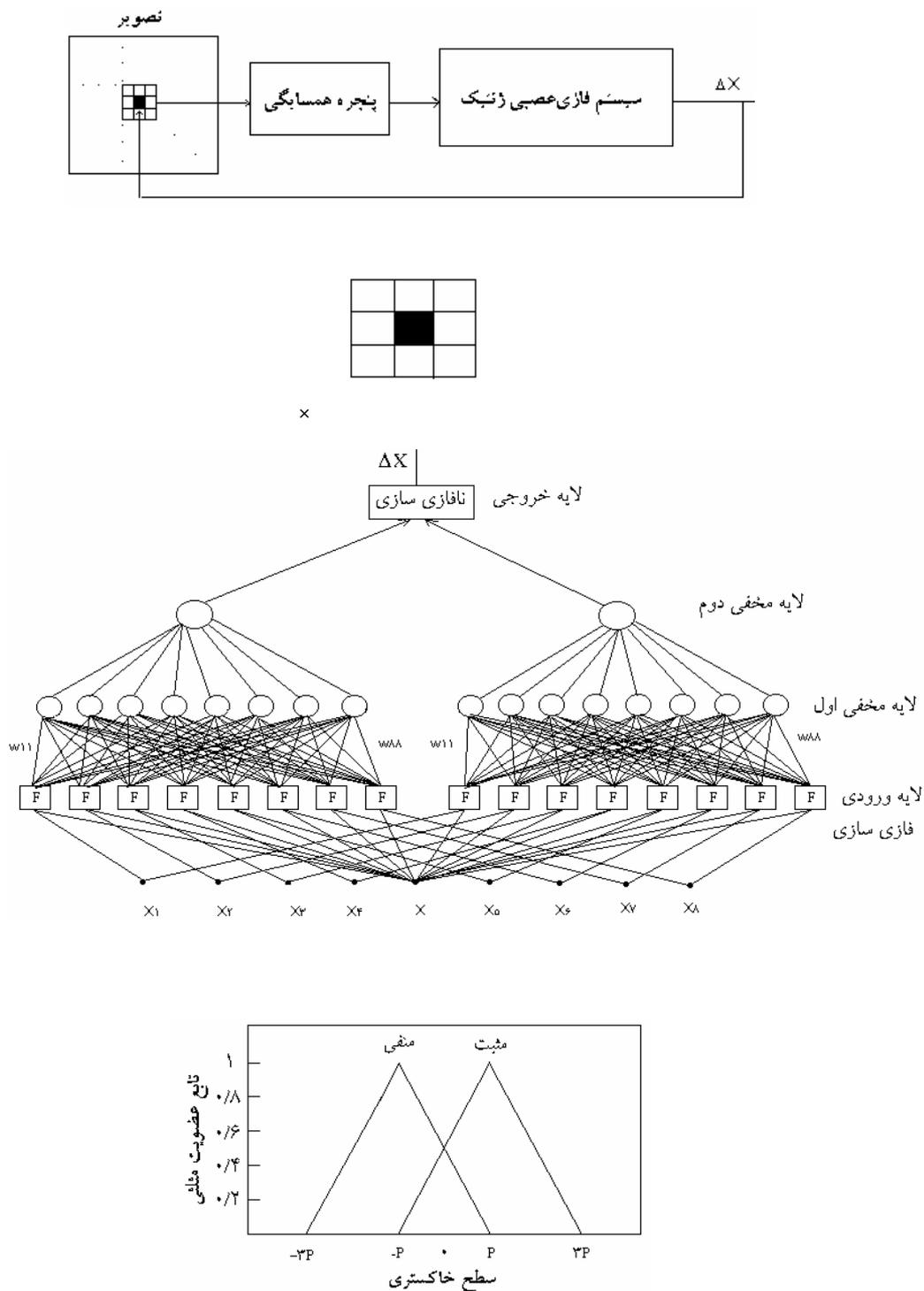
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¹³ Wavelet Transform
¹⁷ Imaging Devices

¹⁴ Wavelet Noise Reduction
¹⁸ Coherence

¹⁵ Bayesian Theory
¹⁹ Network Weights

¹⁶ On-line



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

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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

$\mu_n \mu_p$

) N () P

i $O_i^{()}$ (

i $O_i^{()}$

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

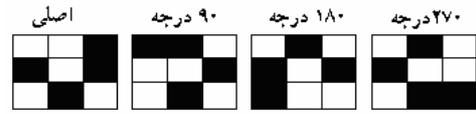
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$$O_1^{(3)} = \text{MAX}_{i=1}^8 (O_{i1}^{(2)}) \quad ()$$

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

$$O^{(3)}$$



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

$$\Delta X = \frac{P(O_1^{(3)} - O_2^{(3)})}{(O_1^{(3)} + O_2^{(3)})}$$

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

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

$$\tilde{X} = X - \Delta X$$

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MAX

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²⁵ Average

²⁶ Minimum

²⁷ Maximum

²⁸ Online Genetic Algorithm

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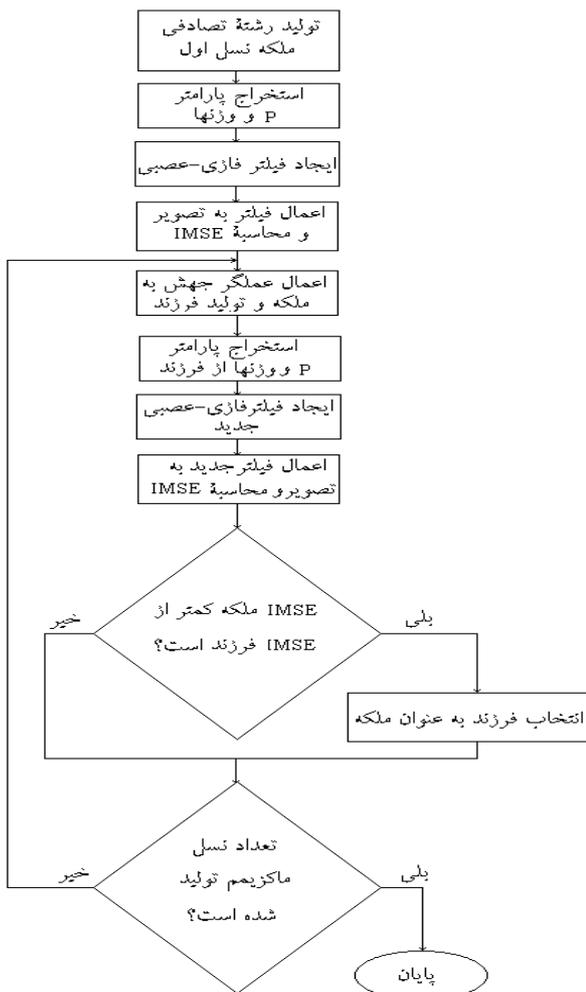
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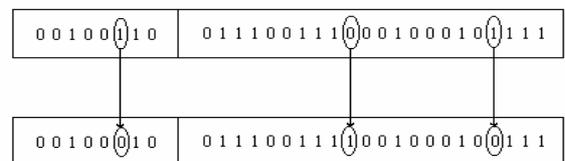
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وزنها $N \times 8$ بیت پهنای تابع عضویت 8 بیتی



²⁹ Queen

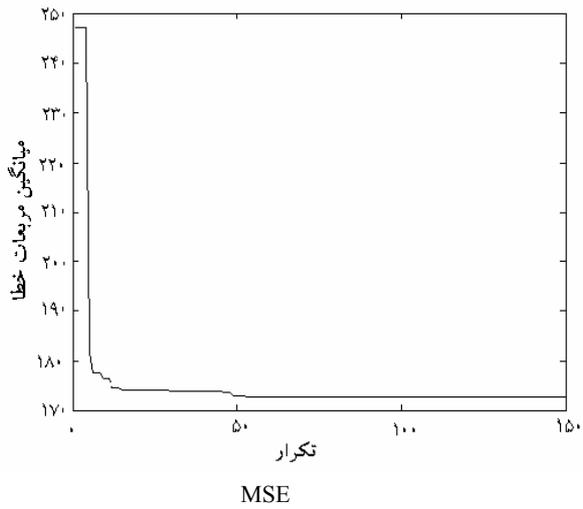
³³ Fitness Function

³⁰ Mutation

³⁴ Inverse Mean Square Error

³¹ Bit

³² Markov Chain



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³⁵ Signal to Noise Ratio

³⁶ Mean Square Error

³⁷ Variance



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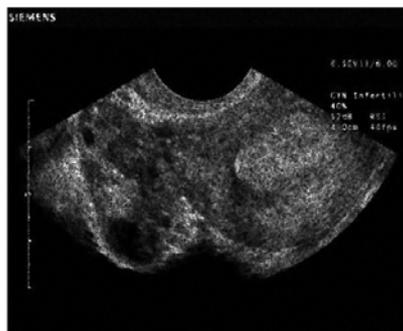
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