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(MLP)

MATLAB 7.4

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(*Pistacia vera* L.)

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() Garsia-Ramos et al.

Duprat .

E-mail: agazanfari@yahoo.com

*

() et al.

() Stone et al. .

() Diezma-Iglesias et al.

Sugiyama et al. .

()

(Singh et al.,

.2008)

Younce & .

() Davis

() McCambridge et al. .

() Pearson .

Cetin et al. . %

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%

() Pearson et al. .

() Ghazanfari et al. .

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%

() Kavdir & Guyer .

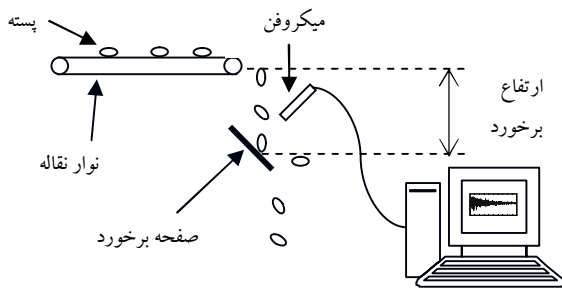
Mahmoudi et al. .

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() Rostami .



x x

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MATLAB 7.4

(Proakis and Manolakis, 1996)

(Havit C-300 MV, Havit Co., USA)

(Intel, 82801BA/BAM AC'97)

(Lau and Weng,

$f(t)$

1995)

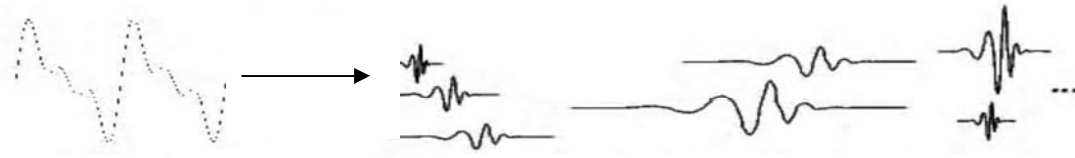
()

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1. Data Acquisition
 2. Sound Acquisition Triggering



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$b a$ () ()

(Wickerhauser, 1994)

(Leung et al., 1998)

$$cwt_f(a, b) = \int_{-\infty}^{\infty} f(t) \psi_{a,b}(t) dt \quad ($$

$\psi_{a,b}(t)$

$$\psi_{a,b}(t) = \frac{1}{\sqrt{|a|}} \psi\left(\frac{t-b}{a}\right) \quad ($$

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(db4)

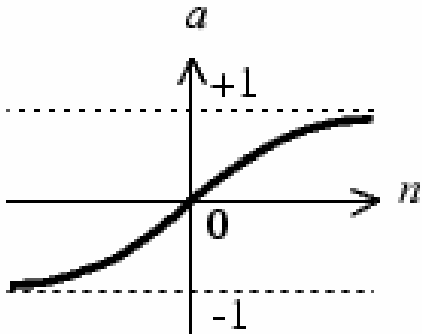
Daubechies

(Sigmoid)

(Rumelhurt et al., 1986)

$$f(a) = \frac{2}{(1 + \exp(-2a))} - 1$$

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 a
 (



(Neuron)

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n n

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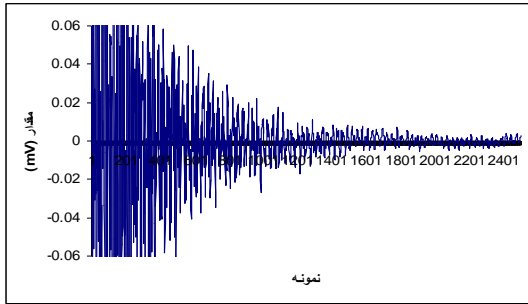
(Haykin, 1999)

() MINITAB 14
 F () F / (

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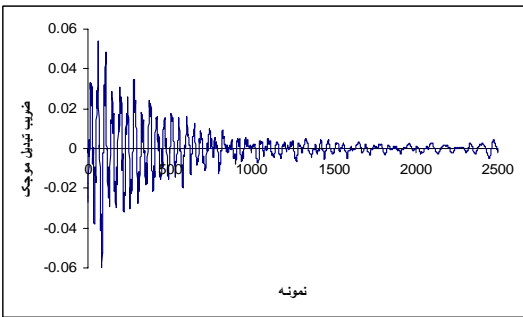
)

(



a

(MSE)

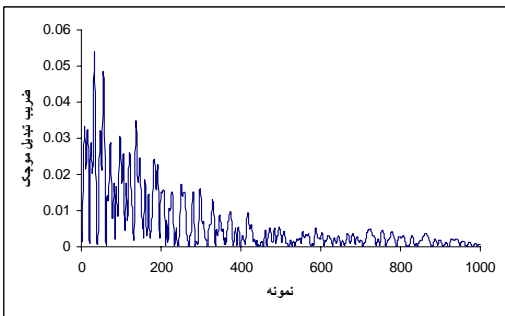


b

()

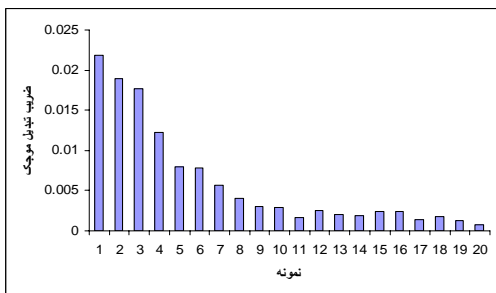
(a)

(b)



c

(/)



d

(c)

(d)

(a:

(a

(c

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F 0.05	F	MS	SS
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	35 cm		25 cm		
	(%)	MSE	(%)	MSE	
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