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Create Hybrid System (Artificial Neural Networks and Fuzzy System) tp Arrange Websites According to there Quality

Abstract

The main of this study is to give model to estimate Websites quality by Artificial Neural Network and fuzzy system to arrange these websites according to there quality depending on the values that get it during the application of the model on these webs, this models contain the most important element suggested for quality criteria like the content quality, availability, reliability, performances and some other elements that must took care when estimating websites with possibility to apply it on all webs by using numeral numbers to meager these categories, in order to get a syntactic model can depended on in estimating websites for easy access to good websites and notarization information can use it in scientific research

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تاريخ التسلم: 2009/7/1 تاريخ القبول: 2009/12/6

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[4,5].

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[1,4].

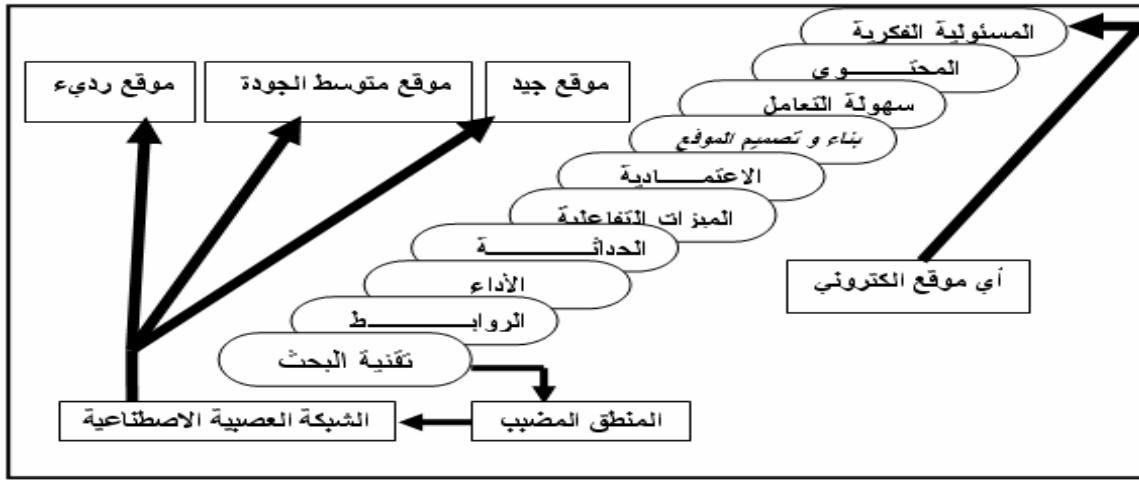
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(exact radial basis network)

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[6].(3)

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(4)

[1,4,5] .

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[1,4,5] (5)

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[1,4,5] (6)

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[1,4,5] (7)

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RSS	5

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[1,4,5] (8)

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(Hyper Links)

[1,4,5] (9)

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[4].

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[4,5].

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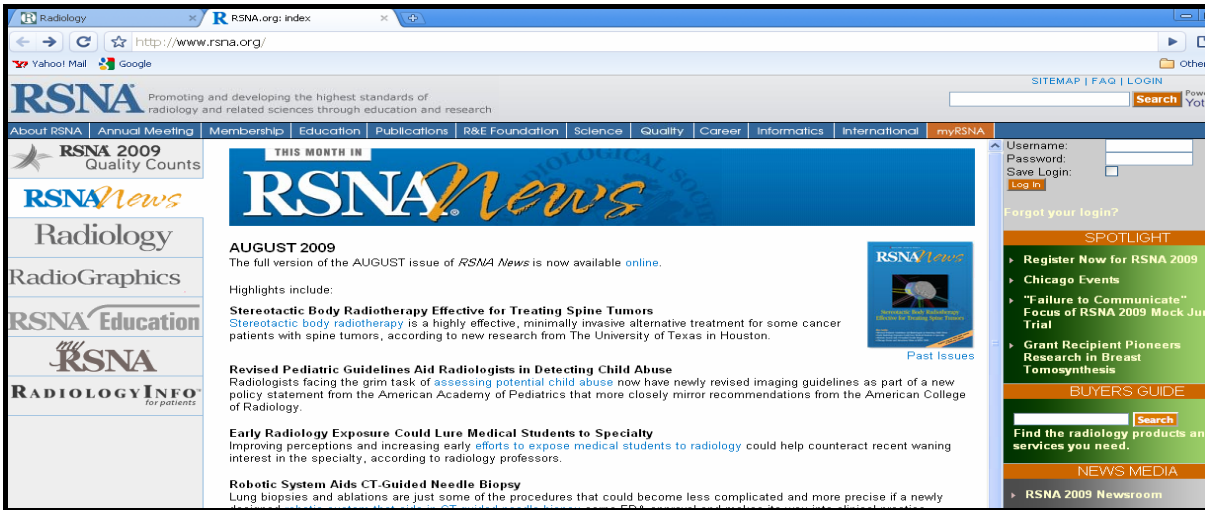
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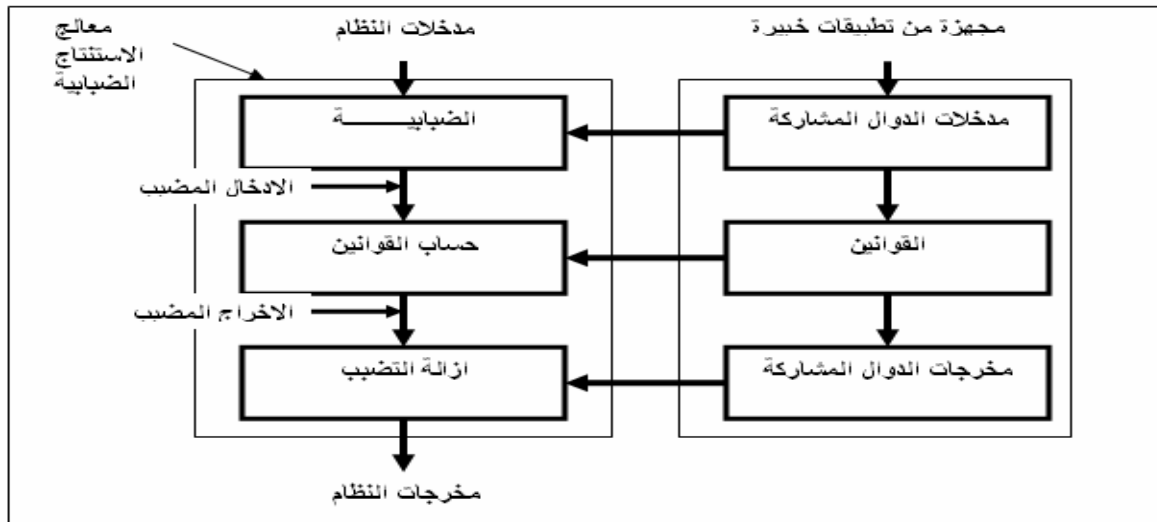
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(exact radial basis network)

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FIU (fuzzy inferencing unit)

[9,8] .(3)



FIU (fuzzy inferencing unit)

(4)

(10-1)

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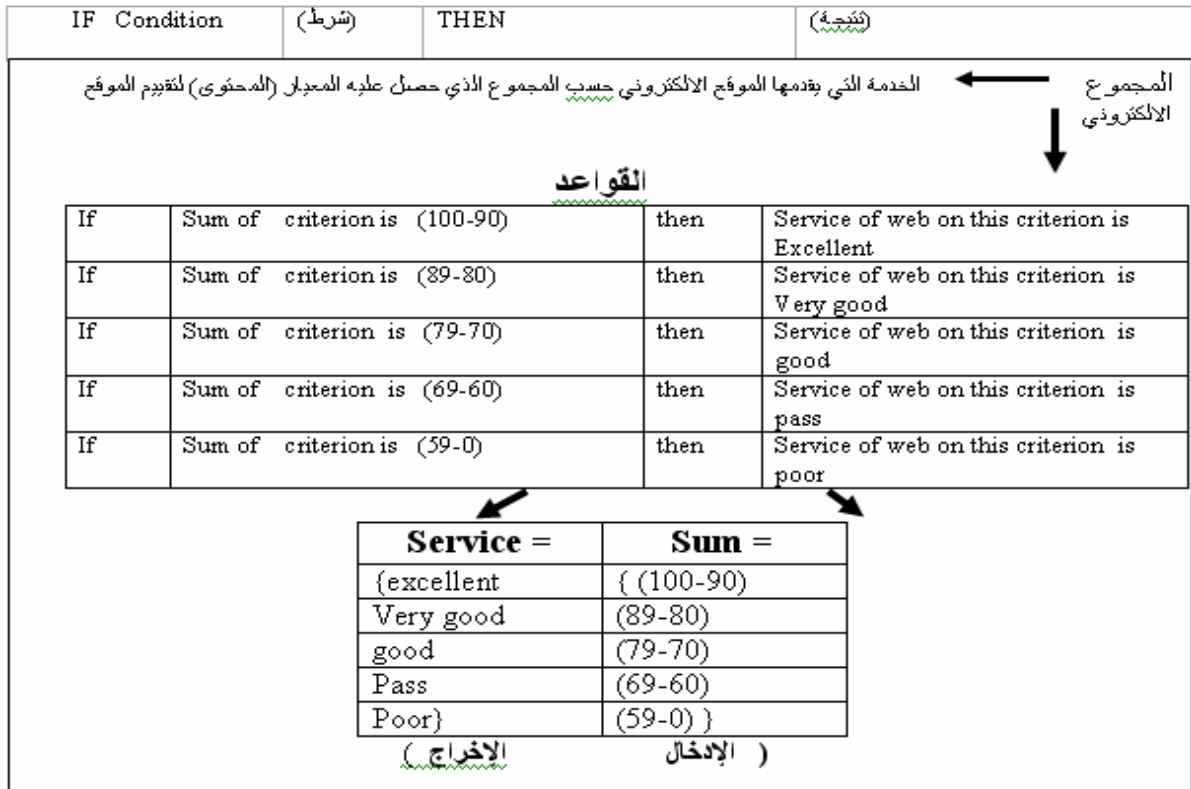
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:(5)



(5)

Exact Radial Basis Network (ERBN)

2-4

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exact radial basis network

exact radial basis network

(Dependencies)

adaptive)

(ERBN)

(Connectionist Approach)

(system

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(ERBN)

(Neurons Nodes)

[10].

(ERBN)

[10].(4)

(two-layer feed-forward networks) - 1

10) $x_1, x_2, x_3, \dots, x_{10}$: (Input) -2

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Gaussian) radial basis -3

3 (functions

linear summation) (Y) -4

5) .Perceptron (functions

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exact radial basis network

.(1)

$$\mathbf{w} = \phi(\|\mathbf{x}^p - \mathbf{x}^q\|)^{-1} \mathbf{t} \quad \text{--(1)}$$

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t

N

$$\mathbf{X}^p = \{\mathbf{X}_i^p : i = 1, \dots, D\} \quad D$$

: f(x) . t

$$f(\mathbf{x}^p) = t^p \quad \forall p = 1, \dots, N \quad \text{--(2)}$$

N

$$\phi(0) \quad \phi(\|\mathbf{X} - \mathbf{X}^q\|) \quad q$$

$$\| \mathbf{x} - \mathbf{x}^q \|$$

q th .
 \mathbf{x}^q \mathbf{x}
 :

$$f(\mathbf{x}) = \sum_{q=1}^N w_q \phi(\| \mathbf{x} - \mathbf{x}^q \|) \quad \text{---(3)}$$

W_q

(Processing Element) : J -6

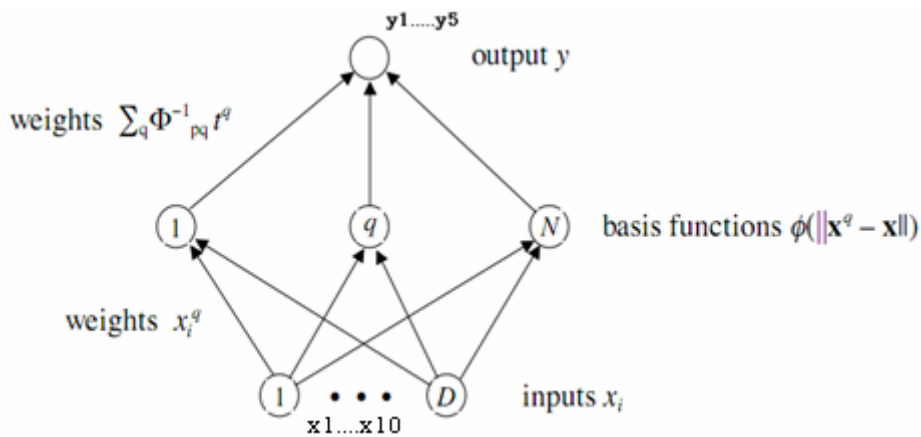
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(Adder) - •

: (Activation Function) - •

[10]. Squashing

$$f(\mathbf{x}) = \sum_{q=1}^N w_q \phi(\| \mathbf{x} - \mathbf{x}^q \|) \quad \text{-----(4)}$$



Exact Radial Basis Functions

(6)

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Exact

Radial Basis Functions

⋮

-(1)

<http://www.arabcin.net/arabiaall/4-2006/5.html>

-(2)

<http://www.saudipt.net>

- 3000 -(3)

<http://www.arabcin.net/arabiaall/2005/12.html>

-(4)

<http://www.cybrarians.info/journal/no10/resources.htm>

-(5)

<http://knol.google.com/k/dr-ahmed-farag/-/5e6arz1cii4o>

- (Hasan and Abuelrub, 2006) - (6)
(Gledec, 2005).
<http://www.igi-global.com/downloads/excerpts/8272.pdf>
- <http://www.elmalakrx.com/Arabic> - (7)
<http://en.wikipedia.org> - (8)
- Bishop A. 1996. "Neural networks for pattern recognition", Oxford (9
England Oxford university, press.
- Radial Basis Function Networks: Introduction - (10)
(Neural Computation : Lecture 13
© John A. Bullinaria, 2008

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- 1-<http://www.rsna.org>.**
- 2-<http://www.emedicine.com>.**
- 3-<http://www.Radiologyeducation.com>.**
- 4-<http://www.radiology.org>.**
- 5-<http://www.acr.org>**

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- 6-<http://www.psychcentral.com>.**
- 7-<http://www.diabetes-rdu.com>.**
- 8-<http://www.dermatologyinfo.net>**
- 9-<http://www.Adama hospital>.**
- 10- <http://www.drdia.com/>**

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Exact Radial

.Basis Functions

VG	VG	E	G	VG	VG	VG	VG	E	VG	http://www.rsna.org
G	G	G	G	E	E	G	VG	E	E	www.emedicine.com
G	G	G	E	G	E	G	VG	G	G	www.Radiologyeducation.com
P	VG	F	P	P	VG	P	VG	G	VG	www.radiology.org
P	VG	E	VG	VG	VG	P	P	G	VG	www.acr.org
VG	E	VG	VG	VG	VG	VG	VG	VG	VG	www.psychcentral.com
E	VG	VG	VG	F	G	P	G	G	VG	www.diabetes-rdu.com
VG	VG	VG	G	G	G	F	G	G	E	www.dermatologyinfo.net
VG		VG	E	P		VG	VG	VG	G	www.Adama hospital
VG	VG	P	G	P	P	G	G	G	P	www.drda.com

F=Fair P=Pass G=Good VG=Very good E = Excellent