

amirdavari@hotmail.com

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140

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:	:
:	:
:	:
0.206 Kg/hp.h :	:
0.193 Kg/hp.h :	:

11

11

Full Flight Simulator (FFS)

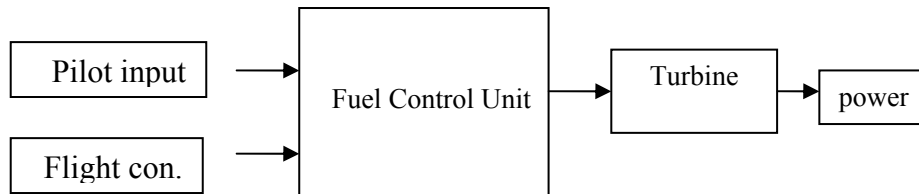
D D C ,B,A
(Wind shear)



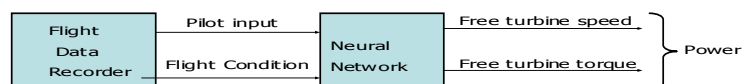
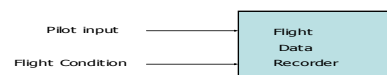
axial

centrifugal

()



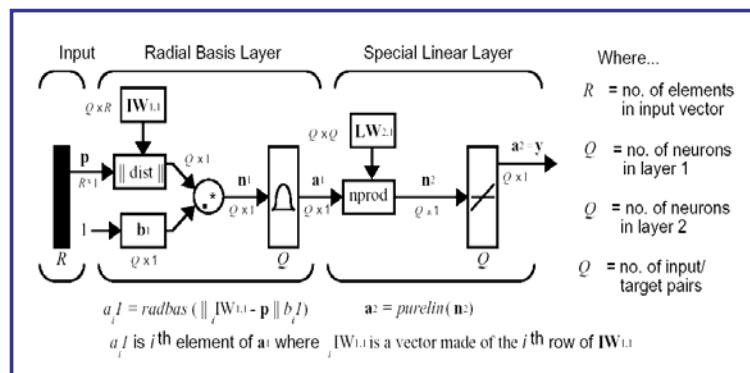
(FDR)

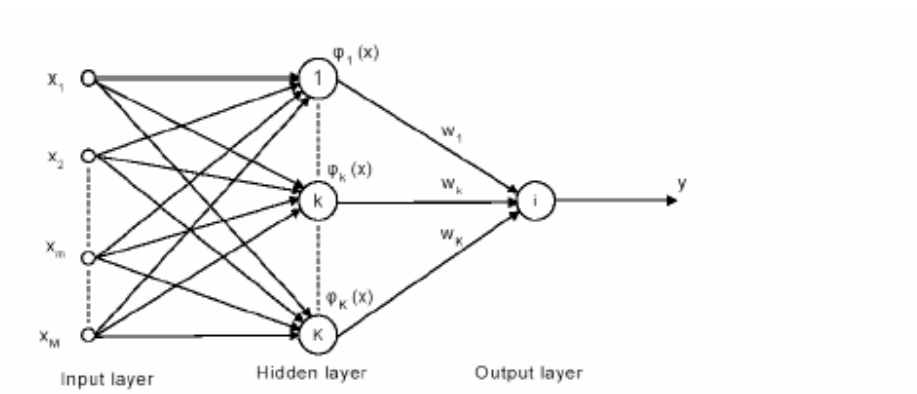


(RBN)

(MPL)

General Regression Neural Network





$$E[Y|X] = \frac{\int_{-\infty}^{+\infty} Y \varphi(X, Y) dY}{\int_{-\infty}^{+\infty} \varphi(X, Y) dY}$$

p $\varphi(X, Y)$

(Parzen)

$$\varphi(X, Y) = \frac{1}{(2\pi)^{(p+1)/2} \sigma^{p+1}} \frac{1}{p} \sum_{i=1}^p [\exp(di/2) \exp(-\frac{(Y-Y_i)^2}{2\sigma^2})]$$

$$d_i = \frac{(X-X_i)(X-X_i)}{\sigma^2}$$

$$Y_i - X_i$$

d_i

$$Y_m(X) = E(Y | X) = \frac{\sum_{i=1}^p [Y_i \exp(d_i)]}{\sum_{i=1}^p \exp(d_i)}$$

$$\omega_k = \frac{V_k^y}{\sum_{k=1}^K N_k \exp(di)}$$

$$V_k \quad N_k$$

wk

K k

نمونه ۴		نمونه ۳		نمونه ۲		نمونه ۱		پارامتر	
شبه‌ساز	اختیار	شبه‌ساز	اختیار	شبه‌ساز	اختیار	شبه‌ساز	اختیار		
5420		6968		2756		2228		Alt	وزنی
-7		-14		22		28		OAT	
60		88		95		95		TH 1	
59		48		95		95		TH 2	
292		258		292		289		IAS	
144.00	144	224.00	224	368.00	368	368.00	384	FC 1	فاصله
144.06	144	96.00	96	384.00	368	384.00	384	FC 2	
91.202	91.6	91.60	91.6	91.60	91.6	92.10	91.6	NFT 1	
91.502	92	92.00	92	92.00	92	92.50	92.5	NFT 2	
88.50	88.5	95.10	95.3	100.00	100	100.20	100.2	NGG 1	
87.601	87.6	85.20	85.2	100.20	100.2	100.40	100.4	NGG 2	
294.02	296	367.00	367	379.00	379	379.00	379	TG 1	
266.99	265	282.00	280	388.00	387	387.0	387	TG2	
24.504	24.5	41.10	41.6	55.60	55.6	66.10	66.6	TRQ 1	
19.502	19.5	13.50	15	69.10	65.1	69.60	69.1	TRQ 2	