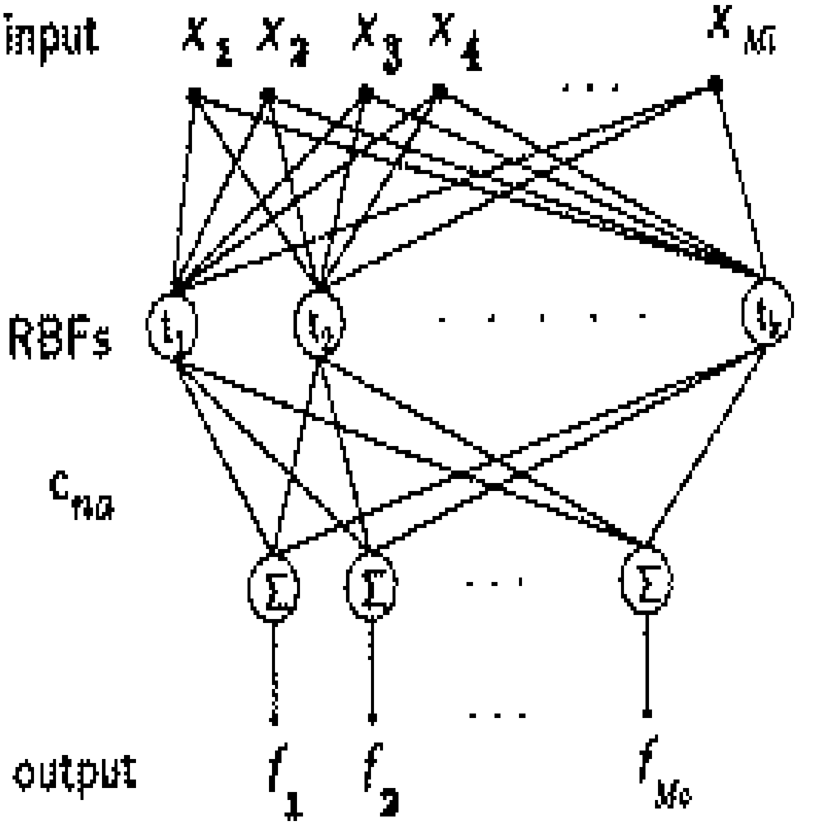

Figure 1: Radial Basis Functions

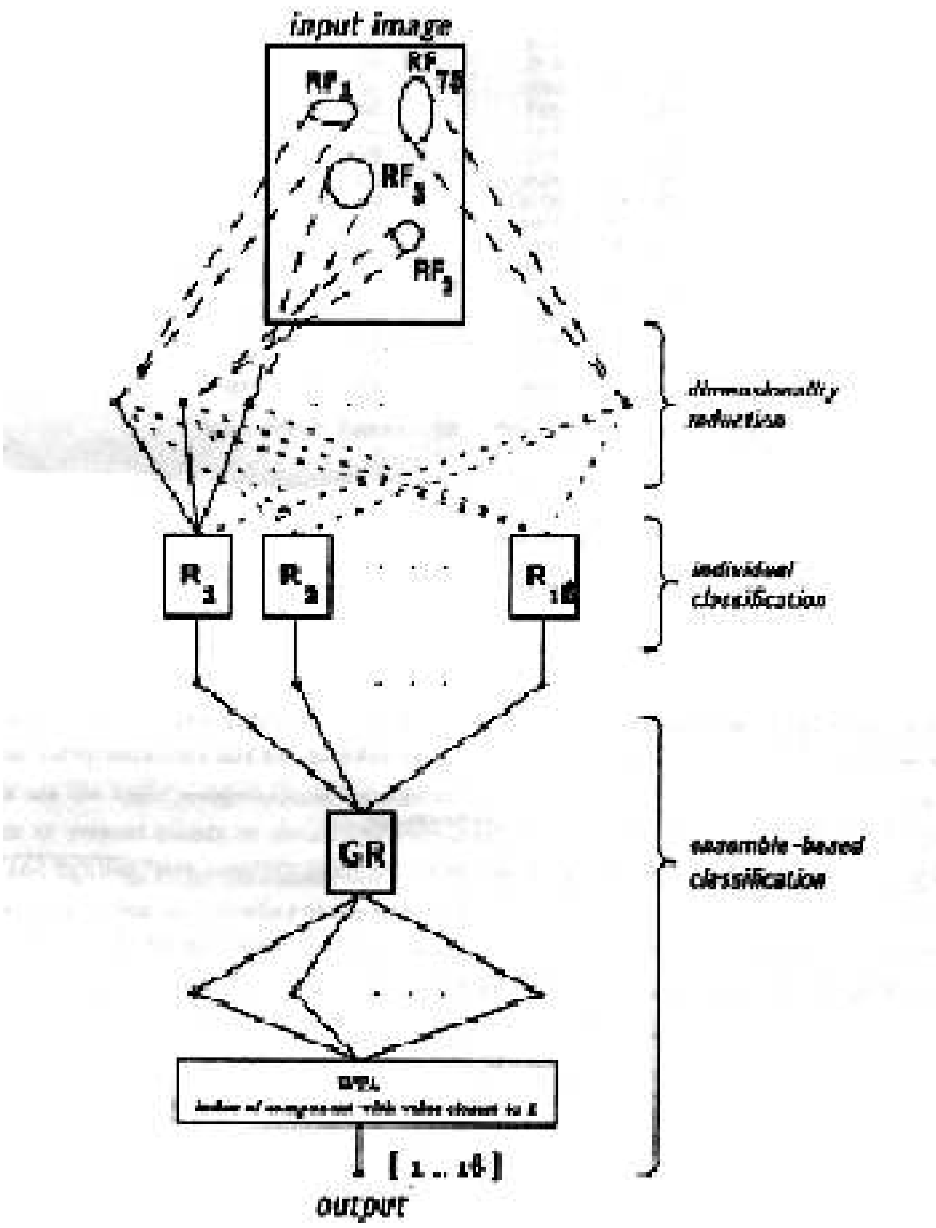

Figure 5: The entire two-stage recognition scheme (see section 4 for explanation).

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Figure 2: The entire two-stage recognition scheme

Train\set	Bil	Bra	Dav	Foo	Irf	Joe	Mik	Min	Pas	Rob	Sta	Ste	Tha	Tre	Vmb	Wav
Bil	0.1		0.2	0.1					0.1			0.2				
Bra						0.4								0.4		
Dav																
Foo				0.1												
Irf		0.3		0.1	0.1	0.4			0.1		0.5	0.3	0.2	0.5	0.2	0.1
Joe		0.1											0.3			
Mik		0.1					0.1				0.1					
Min	0.3		0.5	0.9		0.2		0.1	0.3	0.8		0.8		0.6		0.6
Pas	1.0		1.0	0.2	0.1				0.1	0.5		0.8		0.4		0.5
Rob				0.2						0.1		0.3		0.6		
Sta		0.4				0.5					0.1	0.1	0.4		0.1	
Ste												0.1		0.4		
Tha						0.1										
Tre				0.2				0.1		0.1		0.2		0.1		
Vmb		0.3				0.2					0.1		0.4		0.1	
Wav																0.1

A confusion table representation of the performance of the scheme. Entries along the diagonal correspond to “miss” error rates; off-diagonal entries signify “false alarm” error rates. Entires equal to 0 are omitted for clarity.

Bil	.00
Bra	.20
Dav	.30
Foo	.40
Irf	.30
Joe	.20
Mik	.10
Min	.00
Pas	.10
Rob	.00
Sta	.00
Ste	.60
Tha	.20
Tre	.60
Vmb	.30
Wav	.20

Bil	.00
Bra	.20
Dav	.00
Foo	.20
Irf	.20
Joe	.10
Mik	.00
Min	.00
Pas	.20
Rob	.00
Sta	.10
Ste	.20
Tha	.00
Tre	.10
Vmb	.10
Wav	.10

Left: performance record of the one-stage recognition scheme. Right: performance record of the two-stage scheme that uses ensemble knowledge. Taking into account ensemble knowledge reduces the mean error rate more than by a factor of 2.

Figure 3: The entire two-stage recognition scheme