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Course Code: CSE 977

Course Title: Newcal Notwork and Fuzzy systems.

Convolution operation

Trout

0	1	1	0	
0	1	1	0	1
0	1	Ī	6	
0	1	1	0	1
0	1	The state of the state of the state of	0	1

fill	filter: 19			БH	ter:	02_
1	0	1		0	0	1
1	1	1		1	0	0
0	0	1		0	riginal of	J

stride = 1 padding = 1 Max polling = (2,2) Given,

Step: 1 Add padding into input matrix
(Zero padding)

	(Zero	paddir.	4)				
	0	0	0	0	0	0	0
-	0	0	1	1	Ó	1	0
	0	0	1	1	0	1	0
	0	0	1	1	0	1	0
	0	0	1	1	0	1	0
	0	0	10	10	0	1	0
1	0	0	O	D	0	0	0

Step 2: stride = 1, convolve with 3x3 filters filled

-1-	-						
	0	0	O	0	0	0	0
	0	0	1	1	0	1	0
-	0	0	1	1	0	1	0
	0	0	1	1	0	1	0
-	O	0	1	1	0	1	0
- Indian	0	Ô	1	1	0	1	0
	0	0	0	0	0	0	0

l	0	1
1	1	1
0	О	1

0	0	1
1	O	0
0	(1

2	3	2_	3	1
3	9	3	5	1
3	4	3	5	1
3	9	3	5	1
2	3	3	4	

After Alter: 01

-				
1	2	2	2	1
2	3	2	3	1
2	3	2	3	1
2	3	2	3	1
1	1	1	2	0
	2	2 3	2 3 2	2 3 2 3 2 3 2 3 2 3 2 3

After fifter : 01

Step 3 Addition after filter of and after filter o2.

			-
5	4	5	2
7	5	8	2
7	5	8	2
7	5	8	2
9	4	6	7
	7	7 5 7 5	7 5 8 7 5 8 7 5 8

Here of max polling takes the largest value element from the reef monthshed feature map.

				and the second second
	7	7	g	8
	7	7	8	8
	7	7	8	8
	7	7	8	8
+-		-	-	1