

$a_{i,11}^{f_1}$...	$a_{i,1w}^{f_1}$
...
$a_{i,h1}^{f_1}$...	$a_{i,hw}^{f_1}$

(...)

$a_{i,11}^{f_N}$...	$a_{i,1w}^{f_N}$
...
$a_{i,h1}^{f_N}$...	$a_{i,hw}^{f_N}$

$conv2d(A_i)$

a_o