

$\hat{\mathbf{U}} = [u_0 \dots u_{24}]$
store global solution as image

u_{20}	u_{21}	u_{22}	u_{23}	u_{24}
u_{15}	u_{16}	u_{17}	u_{18}	u_{19}
u_{10}	u_{11}	u_{12}	u_{13}	u_{14}
u_5	u_6	u_7	u_8	u_9
u_0	u_1	u_2	u_3	u_4

3by3 Summation Filter

$\times 1$	$\times 1$	$\times 1$
$\times 1$	$\times 1$	$\times 1$
$\times 1$	$\times 1$	$\times 1$

Convolutional operation

Σu_i $i=10,11,12,15,16,17,20,21,22$	Σu_i $i=11,12,13,16,17,18,21,22,23$	Σu_i $i=12,13,14,17,18,19,22,23,24$
Σu_i $i=5,6,7,10,11,12,15,16,17$	Σu_i $i=6,7,8,11,12,13,16,17,18$	Σu_i $i=7,8,9,12,13,14,17,18,19$
Σu_i $i=0,1,2,5,6,7,10,11,12$	Σu_i $i=1,2,3,6,7,8,11,12,13$	Σu_i $i=2,3,4,7,8,9,12,13,14$