

LIST OF NOTATIONS

Symbols	Definition
r	perpendicular distance of line from origin
θ	angle of line's perpendicular to x axis
\mapsto	Mapping operator
(i, j)	Data point
$ x $	Cardinality of x
$ I_O - I_I $	Absolute of $I_O - I_I$
C_L	Center of left
C_U	Center of up
C_R	Center of right
$c = R, G, B$	Red, Green, and Blue channel
I_O	original image
I_F	Folded image
I_T	Restored image
MAX_I	maximum possible pixel value of the image
d_x & d_y	components of the estimated direction vector
f	filter
w	weight