NAME

wallis − Wallis filter

SYNOPSIS

wallis [**−f** *filtersize*] [**−m** *mean*] [**−s** *stdev*] [**−a** *alfa*] [**−l** *limit*]

DESCRIPTION

wallis performs a Wallis filtering on a byte image sequence. *fwallis* performs a Wallis filtering on a float image sequence. This equation is used:

pixel(i,j) = alfa*mean+(1−alfa)*m(i,j)+(pixel(i,j)−m(i,j))*stdev/(stdev/limit+s(i,j)).

m(i,j) is the local mean and s(i,j) is the local standard deviation.

Input sequence must be byte (wallis) or float (fwallis) and the output sequence is float.

OPTIONS

−f the local window size; default is 3 (x3)

−m the desired value of mean; default is 127 (wallis) or 0.0 (fwallis)

−s the desired value of standard deviation; default is 10.0 (wallis) or 50.0 (fwallis)

−a the value of alfa; default is 0.0

−l the value of limit; default is 10.0

SEE ALSO

mask(1), fmask(1)

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