Subject: Speckle reducing filters Posted by knipp on Wed, 08 Sep 1993 08:27:03 GMT View Forum Message <> Reply to Message
Hi,
I'm currentely involved in studying the effects of several speckle-removing-filters applied to 8-bit- vs. 16-bit-data (SAR Images, ERS-1).
Has anybody implementations of the following filters in IDL/Wave?
1) Lee's Sigma Filter - Lee, "Speckle suppression and analysis", Optical Engineering, May 1986
{ 2) Lee's Local Statistics - " }
3) Kuan's generelization of Lee's Local Statistics - Kuan, et.al. "Adaptive noise smoothing", IEEE Trans. Pattern Anaysis, 1985
I know that due to their adaptive nature implementations of these filters in IDL/Wave are computational inefficient, however I want to be able to easy include additional features to the code. Furthermore it's easier to apply the same filter to 8 AND 16-bit data in IDL/Wave than in p.e. C.
to 2): I'm fully aware of the LEEFILT-routine in the user-library, but to be honest, I do not understand this implementation and so doubt it's correctness.
Thank you all, Karl