

An adaptive filter for smoothing Noisy radar images

Sarwanto, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=82469&lokasi=lokal>

Abstrak

STAR-1 synthetic aperture radar (SAR) imagery takes over portions of East Kalimantan. In the first part of this study, the basic theory of SAR was reviewed, begin by digital signal processing, and then range / azimuth resolution and the last is pulse compression. Specific applications like Frost Filter to reduce speckle caused by multiplicative white noise had been run by "FILTER.F77" program. The Frost filter seems not to give optimum results in this study area. The application of classification also had been run by packet program "Bakosurtanal image analysis system" before and after filtering. Running 'ANALISA & ANALPOS' program and then running its output with 'STATGRAPHIC' program can clear the differences between homogeneous and inhomogeneous areas.