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**Abstract**

A new approach for speckle reduction in polarimetric synthetic aperture radar (PolSAR) images based on the turbo iterative principle is proposed. The turbo iterative algorithm shows high performances due to the propagation of the information between two complementary filters. One filter can boost up the results of the other by processing its residue image and retrieving valuable information in the noise subspace.

**Keywords** : PolSAR, speckle filtering, Turbo principle