



ALGORITHM FOR SIGNAL DECOMPOSITION BY USING THE S-METHOD (WedPmPO3)

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* Abstract :

Decomposition of multicomponent noisy signals is considered in the paper. A novel decomposition algorithm is presented and applied to the synthetic and real radar signals. The algorithm is based on time-frequency analysis and its eigenvalue decomposition. It has been statistically shown that the presented algorithm produces satisfactory results even in a very low signal to noise ratio. Obtained results are robust to the algorithm parameters.