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

Author(s) :
Ljubisa Stankovic  (University of Montenegro, Yugoslavia)
Thayanathan Thayaparan  (Defence Research and Development, Canada)
Milos Dakovic  (University of Montenegro, Yugoslavia)

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.