



SQUARE-ROOT FORM BASED DERIVATION OF A NOVEL NLMS-LIKE ADAPTIVE FILTERING ALGORITHM (WedAmPO1)



Author(s) :

Mounir Bhouri

(ISIMM, Tunisia)



Abstract :

In this paper we derive a new adaptive filtering algorithm. Starting from a general square-root formulation [1], we introduce a normalization transform to the updating scheme of the block-diagonal adaptive algorithm presented in [1]. This algorithm is efficiently implemented with a low complexity, the resulting algorithm is similar to the NLMS one. Simulations, in the context of multichannel adaptive filtering with highly intercorrelated channels, show a fast convergence of our new algorithm.

Menu