

A Variable Weight Mixed-Norm Adaptive Algorithm

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Summary

The convergence analysis of the variable weight mixed-norm LMS-LMF adaptive algorithm is derived. A novel approach is used to study the convergence behavior of three algorithms, mixed-norm- LMS- and LMF-based ones. As a by-product of this novel approach, more general and new necessary and sufficient conditions and excess steady-state error for the LMF have been derived.

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