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An extended direct scheme for robust adaptive nonlinear control $\hat{\sigma}^{\dagger}$

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Abstract

The proposed adaptive scheme achieves regulation for a class of nonlinear systems with unknown constant parameters and unmodeled dynamics. The scheme does not employ overparametrization and does not restrict the class of nonlinearities by any growth conditions. Instead, the dependence on the unknown parameters is restricted by an extended matching condition, which, however, is satisfied in many systems of practical importance, such as most types of electric motors.



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