

# Discrete Variable Structure Model Reference Adaptive Control using only I/O measurements for Non Strictly Positive Real Systems

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**Abstract**—Solving the problem of unpredictable transient responses and tracking reference trajectories has recently become one of the challenging aspects of Model Reference Adaptive Control (MRAC). In this paper, a Discrete Variable Structure Model Reference Adaptive Control using only input-output measurements (D-VS-MRAC-IO) for linear non strictly positive real systems with relative degree two and relatively important parameter variations was proposed. The D-VS-MRAC-IO was designed in order to improve the performances of the MRAC control. Simulation results show a good reference trajectory tracking in spite of the presence of parameter uncertainties.

**Keywords**—Model Reference Adaptive Control, Variable Structure Control, Relay, Discrete Non-Strictly Positive Real Systems, Relative Degree Two, Parameter Uncertainties.

## 1. INTRODUCTION

In recent years, there has been a considerable interest in the control of dynamical systems with parameter uncertainties. Several techniques such as adaptive control techniques appeared in the literature. Model Reference Adaptive Control (MRAC) has especially received a fair amount of attention and attracted many researchers [2, 6, 7, 8, 10, 20, 22, 25]. The MRAC control is based on the modification of the controller parameters to achieve reference trajectory tracking in spite of the presence of unknown or uncertain parameters using a pre-designed stable reference model. However, this control was confronted with several problems resulting in transient closed-loop behavior, problem of stability, and large control signal, etc. In order to solve these problems and to achieve global stability, good robustness and well behaving tracking performances, numerous works are available for continuous-time systems as well as sampled data systems [2, 9, 11, 12, 13, 18, 19]. One of these solutions is achieving robustness of the controller under the condition of Persistency of Excitation (PE) [17, 20, 21]. The second focus is modifying the parameter adaptation law: using the concept of dead zone introduced by Egardt [23]; the addition of a linear term  $(-\sigma\theta)$  in the parameter update law adopted by Ioannou [24]. Other solutions are based on the combination of the model reference adaptive control and intelligent control as neural network and fuzzy logic control [1, 3, 31], as well as iterative learning control [14]. Variable Structure Control (VSC) is another well-known technique, for its robustness

against external disturbances and parameter uncertainties [1, 4, 5, 7, 15, 16]. The VSC is based on the switching functions of the state variables, whose purpose is to force the trajectories of the system to reach the desired sliding manifold in finite time and to stay on it.

However, the original VSC requires the knowledge of all state coordinate values which can not be measured in most cases. The use of state observers, is a natural way to circumvent these requirements [29]. Another recent solution for this problem is based on measuring the system inputs and outputs [4, 7, 16]. Most of these solutions are still limited to systems with relative degree  $n^* = 1$ . An extension of this approach to continuous-time systems with relative degree  $n^* = 2$  had been developed [7].

The combination of the variable structure control and the adaptation mechanisms was firstly proposed by G. Ambrosino in [30] and it was based on the same controller structure of the parameters adaptive scheme. But, it suffers from a mathematically ill-defined algorithm. It has been shown that a globally stable algorithm, designated VS-MRAC, can be constructed for systems with relative degree one. The controller was obtained by replacing the integral adaptation law by an appropriate VSC law. Significant advantages were shown: proper transient behavior and robustness with respect to unmodelled dynamics.

Unlike to the case  $n^* = 1$ , when the relative degree is greater than one, the controller design becomes more complicated. The difference between them is that in the first case the reference model can be chosen Strictly Positive Real (SPR). Besides, the control structure can easily be obtained. However, in the second case the reference model is not SPR so that the controller and the analysis technique in relative degree one cannot be applied directly. A solution for the general case was presented in [7], which requires  $n^*$  auxiliary errors.

In this paper, we are interested in improving the performances and the robustness of model reference adaptive control for discrete linear non strictly positive real systems with relative degree two. Firstly, we proposed a modified MRAC control, based on adding a second term. It was shown through suitable simulation that the second term insured stability. But, it was not a potential solution for the required

# Discrete And Numerical Control Systems With Variable Structure

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