

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 Persistence 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. Ambrosio 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

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web nov 21 2009 one is the main relay 1 in the fuse block in the engine bay and the other one is the circuit opening relay behind the drivers side kick panel you actually have to take the panel off to get to it it will be the green relay on the bottom right corner there is a 10mm bolt right above it that the mount goes to

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web dec 15 2009 this sounds stupid but is there a diagram somewhere that shows what each of the relays in the fuseboxes do i am specifically looking for the headlight relay we recently had the low beams both stop working in our 2003 and i figured

it was either the relay or the switch

[toyota celica 1993 1999 fuse box diagram auto genius](#) - Jan 08 2023

web aug 4 2016 passenger s side kick panel toyota celica fuse box passenger s side kick panel fuses type a fuses type b fuses type c warning terminal and harness assignments for individual connectors will vary depending on vehicle equipment level model and market

ac clutch relay location toyota celica forum - Apr 30 2022

web mar 16 2015 ok so i figured out that the relay is in a box next to the radiator putting power to that relay engages the ac clutch which is just below it clutch works relay works but when i press the ac button the clutch and fans do not engage

[fuses and relays toyota celica t200 1993 1999 car box](#) - Feb 09 2023

web nov 9 2021 here you will find the locations and photos of the fuse blocks separately we note the elements responsible for the cigarette lighter and fuel pump in the engine compartment

help circuit opening relay toyota celica forum - Aug 03 2022

web jun 15 2015 1 5 of 5 posts shadowgriever 2 jun 14 2015 i checked in the factory service manual and it shows the circuit opening relay is under the front of the center console i would like to mention this as well since i am not sure how you have checked for power to your fuel pump

toyota carina ed exiv celica t200 fuse and relay - Jun 01 2022

web fuel pump relay deceleration sensor the main relay of the electric drive of the roof folding audio amplifier start inhibit switch relay block no 4 mirror control relay mode relay ex hi fuse box it is located at the bottom of the dashboard on the driver s side behind the protective cover