

Full Title of Your Paper

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ABSTRACT. Please write down the abstract of your paper here...

Keywords: Please write down the keywords of your paper here, such as, Intelligent information, System control

1. Introduction. Please write down the Introduction of your paper here...

2. Problem Statement and Preliminaries. Please write down your section. When you cite some references, please give numbers, such as, ... In the work of [1-3,5], the problem of... For more results on this topic, we refer readers to [1,4,5] and the references therein...

Examples for writing definition, lemma, theorem, corollary, example, remark.

Definition 2.1. System (1) is stable if and only if...

Lemma 2.1. If system (1) is stable, then...

Theorem 2.1. Consider system (1) with the control law...

Proof: Let...

Corollary 2.1. If there is no uncertainty in system (1), i.e., $\Delta A = 0$, then...

Remark 2.1. It should be noted that the result in Theorem 2.1...

Example 2.1. Let us consider the following example...

$$\ddot{y} x(t) = Ax(t) + Bu(t) + B_1 w(t) \quad (1)$$

$$y(t) = Cx(t) + Du(t) + D_1 w(t) \quad (2)$$

.....
3. Main Results. Here are the main results in this paper...

Definition 3.1. System (1) is stable if and only if...

Lemma 3.1. If systems (1)-(2) are stable, then...

$$\ddot{y} x(t) = Ax(t) + Bu(t) + B_2 w(t) \quad (3)$$

$$y(t) = Cx(t) + Du(t) + D_2 w(t) \quad (4)$$

Theorem 3.1. Consider system (3) with the control law...

Proof: Let...

Corollary 3.1. If there is no uncertainty in system (3), i.e., $\Delta A = 0$, then...

Remark 3.1. It should be noted that the result in Theorem 3.1...

Example 3.1. Let us consider the following example...

TABLE 1. Fuzzy rule table by FSTRM

x_1/x_2	A_{21}	...	A_{2j}	...	A_{2k}
A_{11}	w_1/y_1	...	w_j/y_j	...	w_k/y_k
A_{12}	w_{k+1}/y_{k+1}	...	w_{k+j}/y_{k+j}	...	w_{2k}/y_{2k}
...			...		
A_{1i}	$w_{(i-1)k+j}/y_{(i-1)k+j}$...	
...			...		
A_{1r}	$w_{(i-1)k+1}/y_{(r-1)k+1}$...			w_{rk}/y_{rk}

4. **Control Design.** In this section, we present...

$$\ddot{y} x(t) = Ax(t) + Bu(t) + B_3w(t) \quad (5)$$

$$y(t) = Cx(t) + Du(t) + D_3w(t) \quad (6)$$

Definition 4.1. System (5) is stable if and only if...

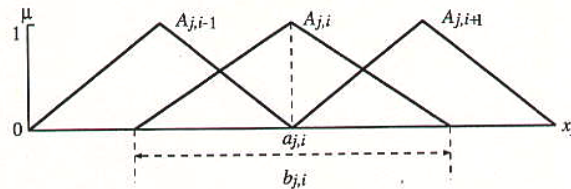


FIGURE 1. Triangular-type membership functions for x_j

Lemma 4.1. If system (5) is stable, then...

Theorem 4.1. Consider system (5)-(6) with the control law...

Proof: Let...

Corollary 4.1. If there is no uncertainty in system (5)-(6), i.e., $\triangle A = 0$, then...

Remark 4.1. It should be noted that the result in Theorem 4.1...

Example 4.1. Let us consider the following example...

.....

5. **Conclusions.** The conclusion of your paper is here...

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