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Full Title of Your Paper

Kebir Boukas[1] and Penguan Liu[2]
[1]Department of Mechanical Engineering
Ecole polytechnique de Montreal
P. O. Box 6079, Station centre-ville
Montreal, Quebec, H3C 3A7, Canada
el-kebir.boukas@polymtl.ca

[2]Beijing Language and Culture University
No.15, Xueyuan Road, Haidian District, Beijing, China
liupengyuan@blcu.edu.cn

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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, 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., _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....*

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1 w(t) \quad (1)$$
$$y(t) = Cx(t) + Du(t) + D_1 w(t) \quad (2)$$

.....

3. **Main Results.** Here are the main results in this paper.....
Definition 3.1. *System (3) is stable if and only if....*
Lemma 3.1. *If system (3)-(4) is stable, then.....*

$$\ddot{x}(t) = Ax(t) + Bu(t) + B_1 w(t) \tag{3}$$
$$y(t) = Cx(t) + Du(t) + D_1 w(t) \tag{4}$$

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., $\triangle A = 0$, then...*
Remark 3.1. *It should be noted that the result in Theorem 2.1.....*
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..... .....

$$\ddot{x}(t) = Ax(t) + Bu(t) + B_1 w(t) \tag{5}$$
$$y(t) = Cx(t) + Du(t) + D_1 w(t) \tag{6}$$

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

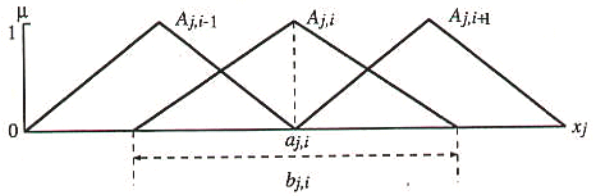

FIGURE 1. Triangular-type membership functions for x_j.

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 2.1.....*
Example 4.1. *Let us consider the following example....*
.....

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

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