

Full Title of Your Paper

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Received XXX 2023; accepted XXX 2023

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

2. **Research Questions.** Please write down research questions in this 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...

3. **Methodologies.** Please write down methodologies employed in this paper...

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

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

Lemma 3.1. If system (1) is stable, then...

Corollary 3.1. If there is no uncertainty in system (1), i.e., $\Delta A = 0$, then...

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

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

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

Lemma 3.2. 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...

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

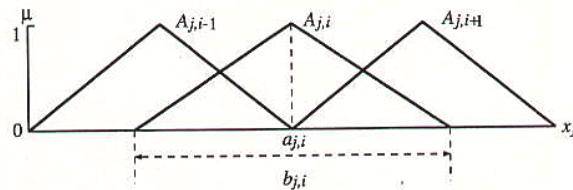


FIGURE 1. Triangular-type membership functions for x_j

4. **Results.** In this section, we present...

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}

5. **Conclusion.** From this study, we can conclude that...

REFERENCES

- [1] M. Mahmoud and P. Shi, *Methodologies for Control of Jump Time-delay Systems*, Kluwer Academic Publishers, Boston, 2003.
- [2] P. Shi, Limited Hamilton-Jacobi-Isaacs equations for singularly perturbed zero-sum dynamic (discrete time) games, *SIAM J. Control and Optimization*, vol.41, no.3, pp.826-850, 2002.
- [3] S. K. Nguang and P. Shi, Fuzzy H-infinity output feedback control of nonlinear systems under sampled measurements, *Automatica*, vol.39, no.12, pp.2169-2174, 2003.
- [4] E. K. Boukas, Z. Liu and P. Shi, Delay-dependent stability and output feedback stabilization of Markov jump systems with time-delay, *IEEE-Part D, Control Theory and Applications*, vol.149, no.5, pp.379-386, 2002.
- [5] P. Shi, E. K. Boukas and R. K. Agarwal, H₁ control of discrete-time linear uncertain systems with delayed-state, *Proc. of 37th IEEE Conference on Decision & Control*, Tampa, Florida, pp.4551-4552, 1998.