Full Title of JIHMSP Template

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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, Watermarking, Video compression, ...

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, 2, 3, 5], the problem of....... For more results on this topic, we refer readers to [1, 4, 5, 7] and the references therein....

2.1. **Several definitions and theorems.** Please write down your subsection.
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....*

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

....

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.....*

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1w(t) \tag{3}$$
$$y(t) = Cx(t) + Du(t) + D_1w(t) \tag{4}$$

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., $\Delta A = 0$, then...*

Remark 3.1. *It should be noted that the result in Theorem 2.1.....*

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

   ....

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

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1w(t) \tag{5}$$
$$y(t) = Cx(t) + Du(t) + D_1w(t) \tag{6}$$

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

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., $\Delta A = 0$, then...*

Remark 4.1. *It should be noted that the result in Theorem 2.1.....*

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

   ....

FIGURE 1. Example of figure

5. **Numerical Example.**

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

Table 1. Sample data

Channel erasure probability		Watermarked image quality (in dB)	Extracted BCR (in %)
p_1	p_2		
0	0	32.53	100
0.05	0.05	30.69	97.56
0.1	0.1	28.90	95.14
0.25	0.25	24.59	88.18
0.3	0.3	23.14	86.04
0.4	0.4	21.52	81.46
0.5	0.5	19.98	76.25
0	1	26.18	73.34
1	0	26.09	80.55

REFERENCES

[1] J. S. Pan, H. C. Huang, L. C. Jain, and W. C. Fang (eds.), *Intelligent Multimedia Data Hiding: New Directions*, Springer, Berlin-Heidelberg, Germany, 2007.

[2] H. C. Huang, J. S. Pan, Y. H. Huang, F. H. Wang, and K. C. Huang, Progressive watermarking techniques using genetic algorithms, *Circuits, Systems, and Signal Processing*, vol.26, no.5, pp.671–687, 2007.

[3] J. S. Pan, H. Luo, and Z. M. Lu, Look-up table based reversible data hiding for error diffused halftone images, *INFORMATICA*, vol.18, no. 4, pp.615–628, 2007.

[4] H. C. Huang, J. S. Pan, and C. M. Chu, Optimized copyright protection systems with genetic-based robust watermarking, *Proc. of the 3rd Int'l Conference on Intelligent Information Hiding and Multimedia Signal Processing*, Kaohsiung, Taiwan, pp.II-465–II-468, 2007.

[5] C. C. Lai, H. C. Huang and C. C. Tsai, Image watermarking scheme using singular value decomposition and micro-genetic algorithm, *Proc. of the 4th Int'l Conf. on Intelligent Information Hiding and Multimedia Signal Processing*, Harbin, China, pp.239–242, 2008.

[6] Y. H. Chen, *A Study on Digital Watermarking and Its Application on Network Multimedia*, Ph.D. Thesis, National Chiao-Tung University, Hsinchu, Taiwan, 2008.

[7] F. C. Chang, H. C. Huang, and H. M. Hang, Combined encryption and watermarking approaches for scalable multimedia coding, in *5th Pacific Rim Conference on Multimedia*, K. Aizawa, Y. Nakamura, and S. Satoh (eds.), Berlin/Heidelberg/New York, Springer-Verlag, LNCS 3333, pp.356–363, 2004.