

## Full Title of DSPR Template

Jerry Chun-Wei Lin

School of Computer Science and Technology  
Harbin Institute of Technology, Shenzhen  
HIT Campus Shenzhen University Town Xili, Shenzhen, China  
jerrylin@ieee.org

Philippe Fournier-Viger

School of Natural Sciences and Humanities  
Harbin Institute of Technology, Shenzhen  
HIT Campus Shenzhen University Town Xili, Shenzhen, China  
philfv@hitsz.edu.cn

Jeng-Shyang Pan

School of Computer Science and Technology  
Harbin Institute of Technology, Shenzhen  
HIT Campus Shenzhen University Town Xili, Shenzhen, China  
School of Information Science and Engineering  
Fujian University of Technology, Fujian, China  
jengshyangpan@fjut.edu.cn

---

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

**Keywords:** Please write down at least five 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, ?] 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....*

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1w(t) \quad (1)$$

$$y(t) = Cx(t) + Du(t) + D_1w(t) \quad (2)$$

.....

**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.....*

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1w(t) \quad (3)$$

$$y(t) = Cx(t) + Du(t) + D_1w(t) \quad (4)$$

**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 2.1.....*

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

.....

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

$$\dot{x}(t) = Ax(t) + Bu(t) + B_1w(t) \quad (5)$$

$$y(t) = Cx(t) + Du(t) + D_1w(t) \quad (6)$$

**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....*

.....

**5. Numerical Example.**

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

**Acknowledgment.** This work is partially supported by ..... The authors also gratefully acknowledge the helpful comments and suggestions of the reviewers, which have improved the presentation.

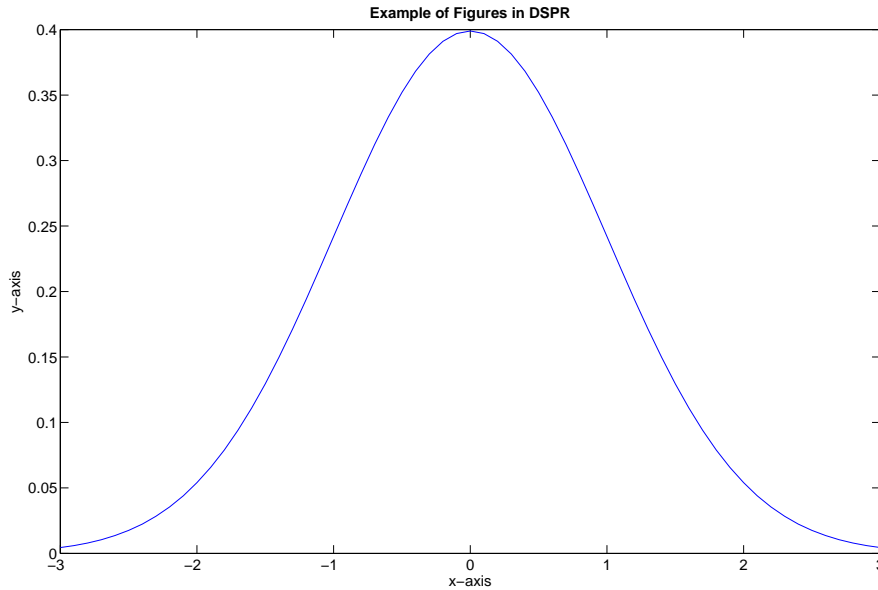


FIGURE 1. Example of figures

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] R. Y. Dougnon, P. Fournier-Viger, J. C. W. Lin, and R. Nkambou, "Inferring social network user profiles using a partial social graph," *Journal of Intelligent Information Systems*, vol. 47(2), pp. 313–344, 2016.
- [2] P. Fournier-Viger, J. C. W. Lin, A. Gomariz, T. Gueniche, A. Soltani, Z. Deng, and H. T. Lam, "The SPMF open-source data mining library version 2," *Joint European Conference on Machine Learning and Knowledge Discovery in Databases*, pp. 36–40, 2016.
- [3] T. P. Hong, C. W. Lin, and Y. L. Wu, "Incrementally fast updated frequent pattern trees," *Expert Systems with Applications*, vol. 34(4), pp. 2424–2435, 2008.
- [4] C. W. Lin and T. P. Hong, "A survey of fuzzy web mining," *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, vol. 3(3), pp. 190–199, 2013.
- [5] J. C. W. Lin, L. Yang, P. Fournier-Viger, S. Dawar, V. Goyal, A. Sureka, and B. Vo, "A more efficient algorithm to mine skyline frequent-utility patterns," *International Conference on Genetic and Evolutionary Computing*, pp. 127–135, 2016.
- [6] J. M. T. Wu, J. Zhan, and J. C. W. Lin, "An ACO-based approach to mine high-utility itemsets," *Knowledge-Based Systems*, vol. 116, pp. 102–113, 2016.



**Jerry Chun-Wei Lin** is an Editor-in-Chief of the Data Science and Pattern Recognition (DSPR) journal.