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## THE TITLE OF THE PAPER

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ABSTRACT. Here please insert your abstract. The abstract should contain the main result of the talk with no reference number therein. The speaker is responsible for the proper formatting of his/her talk by using the style file of the booklet of abstracts.

### 1. INTRODUCTION

The number of pages for the full paper should have 5-20 pages.

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(1) MSC2010: Primary only one item; and Secondary at most 3 items.

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*Key words and phrases.* keyword1, keyword2, keyword3 (at least 3 and at most 5 items).

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- (2) Key words: At least 3 items and at most 5 items.
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## 2. MAIN RESULTS

The following is an example of a lemma.

**Lemma 2.1.** *Assume that  $D$  is a class of estimators. ...*

- (a) *If  $D$  is a class of unbiased estimators, then ...;*
- (b) *If  $D$  is a class of invariant estimators, then ....*

Here is an example of a table.

TABLE 1. Your table's caption

| col1 | col2 | col3 |
|------|------|------|
| 4    | 5    | 6    |
| 7    | 8    | 9    |

This is an example of a matrix

$$\begin{bmatrix} 1 & -2 \\ 3 & 5 \end{bmatrix}$$

The following is an example of an example.

**Example 2.2.** Let  $\{X_1, \dots, X_n\}$  be sequence of iid random variables. Then, we have

$$\bar{X} = \frac{1}{n} \sum_{i=1}^n X_i \quad (2.1)$$



 fig1-eps-converted-to.pdf

FIGURE 1. Write here the title of the figure.

The following is an example for figure.

Referring to the Figure ?? in the Text.

The following is an example of a theorem and a proof. Please note how to refer to a formula.

**Theorem 2.3.** *If  $\mathbf{B}$  is an open ball of a real inner product space  $\mathcal{X}$  of dimension greater than 1, then there exist additive mappings  $T : \mathcal{X} \rightarrow \mathcal{Y}$  and  $b : \mathbb{R}_+ \rightarrow \mathcal{Y}$  such that  $f(x) = T(x) + b(\|x\|^2)$  for all  $x \in \mathbf{B} \setminus \{0\}$ .*

*Proof.* First note that if  $f$  is a generalized Jensen mapping with parameters  $t = s \geq r$ , then

$$\begin{aligned} f(\lambda(x+y)) &= \lambda f(x) + \lambda f(y) \\ &\leq \lambda(f(x) + f(y)) \\ &= f(x) + f(y) \end{aligned} \tag{2.2}$$

for some  $\lambda \geq 1$  and all  $x, y \in \mathbf{B} \setminus \{0\}$  such that  $x \perp y$ .

Step (I)- the case that  $f$  is odd: Let  $x \in \mathbf{B} \setminus \{0\}$ . There exists  $y_0 \in \mathbf{B} \setminus \{0\}$  such that  $x \perp y_0$ ,  $x + y_0 \perp x - y_0$ . We have

$$\begin{aligned} f(x) &= f(x) - \lambda f\left(\frac{x+y_0}{2\lambda}\right) - \lambda f\left(\frac{x-y_0}{2\lambda}\right) \\ &\quad + \lambda f\left(\frac{x+y_0}{2\lambda}\right) - \lambda^2 f\left(\frac{x}{2\lambda^2}\right) - \lambda^2 f\left(\frac{y_0}{2\lambda^2}\right) \\ &= 2\lambda^2 f\left(\frac{x}{2\lambda^2}\right). \end{aligned}$$

Step (II)- the case that  $f$  is even: Using the same notation and the same reasoning as in the proof of Theorem ??, one can show that  $f(x) = f(y_0)$  and the mapping  $Q : \mathcal{X} \rightarrow \mathcal{Y}$  defined by  $Q(x) := (4\lambda^2)^n f((2\lambda^2)^{-n}x)$  is even orthogonally additive.

Now the result can be deduced from Steps (I) and (II) and (?).  $\square$

#### REFERENCES

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