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Abstract

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Keywords: input keyword here, input another keyword here

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1. Introduction

Something be highlighted

invisible comment:

2. Literature review

2.1. Literature review subsection

citation: Grass & Fischer (2016),

citation in bracket: (Grass & Fischer, 2016),

3. Mathematical model

Table 1: Notations

Sets:	
T	blablabla
Parameters:	
M	blablabla
First-stage decision variables:	
y_{ik}	blablabla
Second-stage decision variables:	
t_{ij}^s	blablabla
Auxiliary decision variables:	
x_{pq}^s	blablabla

blablabla

Model (1)

$$\text{[SPRP]} \quad \text{minimize} \sum_{i\in T}\sum_{k\in K} c^k y_{ik} + \sum_{i\in T} ql_i + \sum_{i\in T}\sum_{h\in H} c_1^h w_i^h + \mathbb{E}_{s\in S}\left(\sum_{i\in T}\mathcal{R}_{is}\right) \tag{1.1}$$

$$\text{subject to} \sum_{k\in K} y_{ik} \leq 1, \qquad \forall i \in T \tag{1.2}$$

(1.1) blablabla.

4. Solution method

4.1. Solution method subsection

4.1.1. Solution method subsubsection

5. Numerical experiments

reference Figure 1, Figure 1(a), Figure 1(b), Figure 1(c), Figure 1(d).

Table 2: Table

Parameters	Description	Value
Variable parameters:		
$\|T\|$	blablabla	blablabla
Deterministic parameters:		
p_j	blablabla	blablabla

[1] balblabla

Table 3: Table

Instance	A			B			C			D		
	Obj.	Gap (%)	Time (s)	Obj.	Gap (%)	Time (s)	Obj.	Gap' (%)	Time (s)	Obj.	Gap (%)	Time (s)
--**	***000**	0.00	000	***000**	0.00	000	***000**	0.00	000	***000**	0.00	000

blablabla

(a) Sub figure (b) Sub figure (c) Sub figure (d) Sub figure

Figure 1: A figure

another reference fig. 1, fig. 1(a), fig. 1(b), fig. 1(c), fig. 1(d).

Appendix A, theorem 1

6. Acknowledgment

This work was supported by the United States National Science Foundation (NSF) [grant number ***]; the National Natural Science Foundation of China (NSFC) [grant number ***]; and the China Scholarship Council (CSC) [grant number ***]. We also appreciate the anonymous reviewers for their valuable suggestions.

Appendix A. Some proof

Theorem 1. *Some theorem.*

Proof.

$$\text{Equations} \tag{A.1}$$

Equations without number

Case 1: Case

Case 2: Sub case (1): Sub case

proof is end here □

Appendix B. Pseudo code

Algorithm 1: This is an algorithm

```
   Data: data
   Result: results
 1 def function_name(PMP_u):
 2     gap ← +∞;
 3     while gap ≠ 0 :
 4         do something;
 5         if condition > value :
 6             something = True;
 7             for i ∈ T, s ∈ S :
 8                 do something;
 9             if ondition > value :
10                 a ← b ;                                  // blablabla
11         else:                                            // Return something
12             return something;
13         v ← v + 1;
14     return something
```

References

Grass, E., & Fischer, K. (2016). Two-stage stochastic programming in disaster management: A literature survey. *Surveys in Operations Research and Management Science*, *21*, 85–100. doi:10.1016/j.sorms.2016.11.002.