

This is a L^AT_EXtemplate for Elsevier

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Abstract

Abstract

Keywords: input keyword here, input another keyword here

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1. Introduction

TODO: (SOMETHING TO DO)

Something be highlighted

[Some comment]

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)

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

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

(1.1) blablabla.

Table 2: Table		
Parameters	Description	Value
Variable parameters:		
$ T $	blablabla	blablabla
Deterministic parameters:		
p_j	blablabla	blablabla

¹ balblabla

4. Solution method

4.1. Solution method subsection

4.1.1. Solution method subsubsection

5. Numerical experiments

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

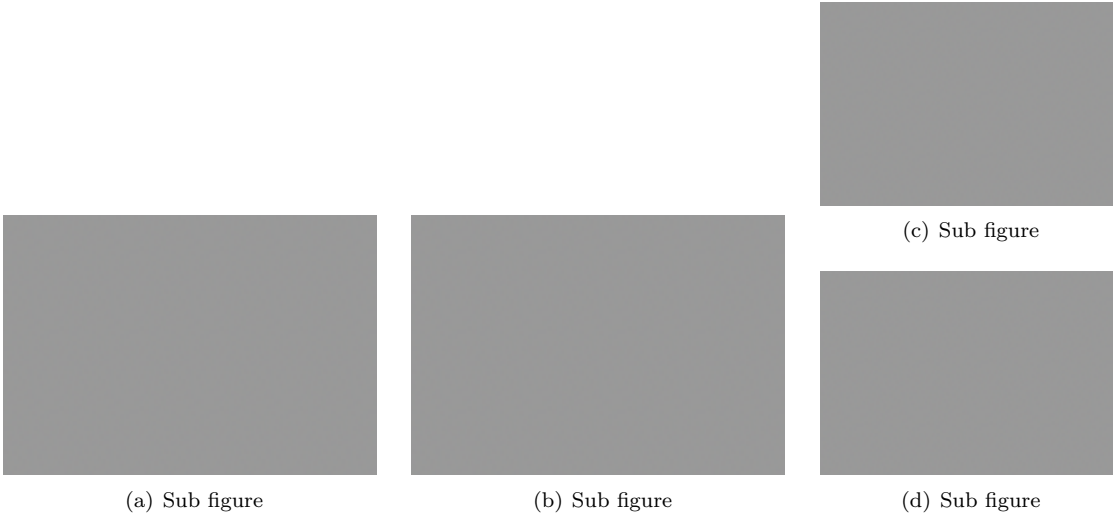


Figure 1: A figure

reference [Figure 1](#), [Figure 1\(a\)](#), [Figure 1\(b\)](#), [Figure 1\(c\)](#), [Figure 1\(d\)](#).

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 Scholar-

ship Council (CSC) [grant number ***]. We also appreciate the anonymous reviewers for their valuable suggestions.

Appendix A. Some proof

Theorem 1. *Some theorem.*

Proof.

Equations (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  $\leftarrow +\infty$ ;
3   while gap  $\neq 0$  :
4     do something;
5     if condition > value :
6       something = True;
7       for  $i \in T, s \in S$  :
8         do something;
9       if ondition > value :
10        a  $\leftarrow$  b ; // blablabla
11     else: // Return something
12       return something;
13   v  $\leftarrow$  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](https://doi.org/10.1016/j.sorms.2016.11.002).