Research Note Template

Edited By

Shixi Chen

The Hong Kong University of Science and Technology

December 18, 2020

Contents

Last updated on July 5, 2023

Chapter 1

Your Chapter One

1.1 Your Section One

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1.1.1 Your Subsection

Ensuring a low enough bit error rate (BER) at the receiver requires that the received signal must exceed the minimum detectable power of the receiver. This requirement can be expressed mathematically as

$$P_{mod} - L_{IO} - L_{IC} \geq P_{min,det}, \qquad \text{[dBm]} \quad (1.1)$$

where P_{mod} represents the signal power immediately after modulation, L_{IO} represents the coupling loss at chip boundaries, and L_{IC} represents the on-chip loss due to devices such as waveguides, fibers, and micro-ring resonators (MRRs). The parameter $P_{min,det}$ denotes the minimum detectable power, which is by definition the receiver's sensitivity and is expressed in decibels relative to one milliwatt (dBm).

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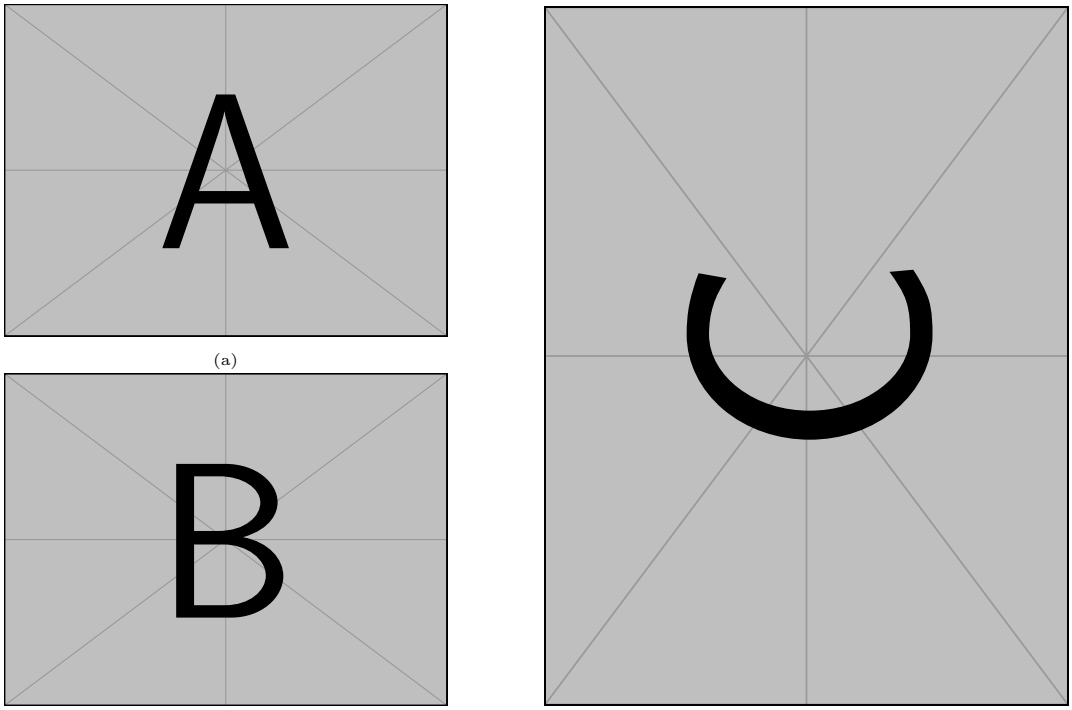

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Fig. 1.1. Explanation of the figure presentation. (a) Evidence A. (b) Evidence B. (c) Evidence C.

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512KB L2 Slice	Read: 0.0226595 nJ/op Write: 0.0226595 nJ/op	0.0238705 W	
4MB L3 Slice	Read: 0.080728 nJ/op Write: 0.080728 nJ/op	0.189787 W	McPAT 7nm
router	0.09 pJ/bit	0.11 W	
buffer	0.064 pJ/bit	0.0002 W	
intra-die elink (16-Byte wide, uni-)	0.0768 pJ/bit	0.017 W	
inter-die elink	1.02 pJ/bit	0 W, no report	[5]
inter-chip elink [a]	4.71 pJ/bit	0 W, no report	OEIL
memory controller	0.0391783 W	0.00194085 W	McPAT
memory	0.24 W	0.075 W	MICRON DDR4 8GB @(9% read, 3%write)

[a] Highly dependent on length, working frequency, etc. Value derived from OEIL's default device parameters, check the manual for details.

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Algorithm 1 My algorithm

```
1:  procedure MyProcedure
2:      stringlen ← length of string
3:      i ← patlen
4:  top:
5:      if i > stringlen then return false
6:      j ← patlen
7:  loop:
8:      if string(i) = path(j) then
9:          j ← j − 1.
10:         i ← i − 1.
11:         goto loop.
12:         close;
13:     i ← i + max(delta_1(string(i)), delta_2(j)).
14:     goto top.
```

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Chapter 2

Your Chapter Two

2.1 Your Section One

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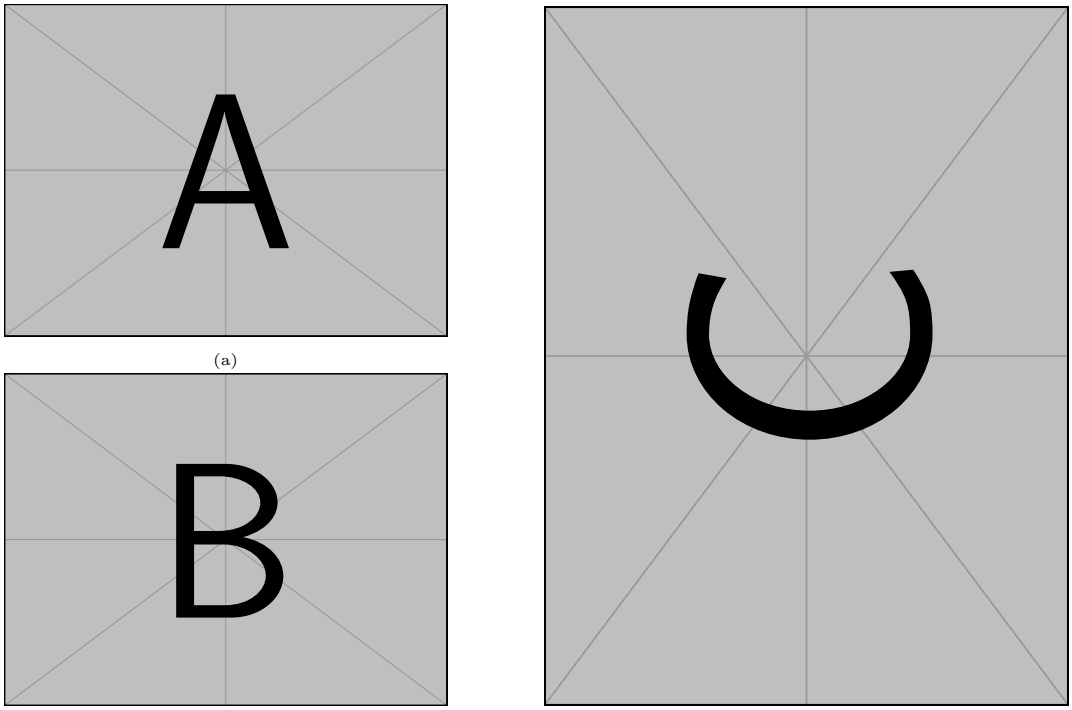

(a) (b) (c)

Fig. 2.1. Explanation of the figure presentation. (a) Evidence A. (b) Evidence B. (c) Evidence C.

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```
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2:      stringlen ← length of string
3:      i ← patlen
4:  top:
5:      if i > stringlen then return false
6:      j ← patlen
7:  loop:
8:      if string(i) = path(j) then
9:          j ← j − 1.
10:         i ← i − 1.
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Appendix A

An Appendix

TABLE I
CLASSIFICATION

Entry3 **Entry4** / **Entry1** **Entry2**	**Single LPS**	**Multiple**		
		C [a]	**SD**	**FD**
GS			Subsubsection1 Subsubsection5	
RS		Subsubsection2		
D [b]		Subsubsection3		Subsubsection4

[a] Your comments on a
[b] Your comments on b

Appendix B

Another Appendix

B.1 A Subection in Appendix

Appendix C

My Blog